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User Manual



IPV58P2P

Wi-Fi HD720P Waterproof Outdoor P2P IP Camera

Before using this product, please read this document carefully and visit www.ebodeelectronics.eu for latest manual, Software and FAQ.

Contents of the kit:



1x IP Camera



1x Power Adapter



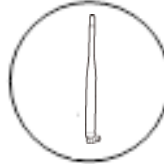
1x Resource CD



1x Ethernet Cable



1x Mounting Bracket + Screws



1x Wi-Fi Antenna



1x Quick Start Guide



1x Surveillance Sticker



1x ebody leaflet

Technical Specification:

- Full HD720P Waterproof IP Camera
- P2P Feature for Easy Remote Access
- H.264 Video Compression
- IR LEDs On/Off Auto Switch
- Motion Detection Alarm via E-Mail and FTP
- Free ebody DDNS Service embedded
- Compatible with free ebody Central Management Software
- Compatible with free ebody iOS and Android APP
- Supports IEEE 802.11n Wireless Connection
- Supports WEP, WPA and WPA2 Encryption
- Supports two-way Audio
- With 12pcs IR-LEDs, Night Vision Range up to 20m

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1. Conformity of Use

For carefree and safe use of this product, please read this manual and safety information carefully and follow the instructions. The unit is registered as a device that does not cause or suffer from radio-frequency interference. It is CE approved and it conforms with the Low Voltage Directory. The safety and installation instructions must be observed. Technical manipulation of the product or any changes to the product are forbidden, due to security and approval issues. Please take care to set up the device correctly - consult your user guide. Young children should use the device only under adult supervision. No guarantee or liability will be accepted for any damage caused due to incorrect use of the equipment supplied, other than indicated in this owner's manual.

Safety Warnings

- To prevent short circuits, this product (except if specified for outdoor usage) should only be used inside and only in dry spaces. Do not expose the components to rain or humidity.
- Only connect the power cord to the mains after checking whether the mains voltage is the same as the values on the rating labels. Never connect a power cord when it is damaged. In that case, contact your supplier. If there is any danger of a thunderstorm, it is a good precaution to unplug the power supply from the mains network in order to protect it from lightning. The same applies if the system is to be out of action for any length of time.
- Avoid strong mechanical tear and wear, extreme ambient temperatures, strong vibrations and atmospheric humidity.
- Do not disassemble any part of the product: no user-serviceable parts are inside. The product should only be repaired or serviced by qualified and authorized service personnel. Defected pieces must be replaced by original (spare) parts.
- Batteries: keep batteries out of the reach of children. Dispose of batteries as chemical waste. Never use old and new batteries or different types of batteries together. Remove the batteries when you are not using the system for a longer period of time. When inserting batteries be sure the polarity is respected. Make sure that the batteries are not short circuited and are not disposed in fire (danger of explosion).

In case of improper usage or if you have opened, altered and repaired the product yourself, all guarantees expire. The supplier does not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. The supplier does not accept responsibility for additional damage other than covered by the legal product responsibility.

2. Introduction

Congratulations on purchasing the ebody IPV58P2P. Please check our website www.ebodyelectronics.eu for the latest version of this manual. This manual will help you operate the Wi-Fi HD720P Indoor P2P IP Camera. The ebody IPV58P2P camera offers the latest generation of IP cameras with hassle-free, three steps set-up and installation, thanks to a unique QR code scanning method. The IPV58P2P Waterproof (IP66) outdoor camera with 12 IR-LEDs and automatic IR-LED takes care for Night Vision Range up to 20 meters. Includes IR-Cut Filter for automatically color correction. Free DDNS service embedded so live feeds are available wherever you are. Free iOS and Android App available. Supports Microsoft IE6 and above version or compatible browser, Mozilla Firefox, Google Chrome, Apple Safari. Wireless Wi-Fi Standard IEEE802.11 b/g/n, Security Standard WEP, WPA and WPA2. The IPV58P2P Outdoor Camera has H.264 video compression, supports Onvif, motion detection alarm via e-mail and FTP and 2-way audio.

3. Overview

The outdoor HD IP Camera is integrated IP Camera with a color CMOS sensor enabling viewing in High Definition resolution. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop from anywhere on your local network or over the Internet.

The IPCAM support the industry-standard H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth.

Thanks to the P2P easy access technology, you don't need to do complicated Port Forwarding and DDNS settings, you just need to scan the QR code on the bottom of the camera to connect it on smart phone, or input the UID on CMS software to do remote access.

The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explorer. Therefore the management and maintenance of your device is simplified by using the network to achieve the remote configuration and start-up.

The camera is designed for outdoor surveillance applications such as courtyards, supermarket, and school. Controlling the IPCAM and managing images are simplified by using the provided web interface across the network utilizing wireless connectivity.

The IPCAM provides Smart Phone APP for Android and iPhone users, please search and install the application named "ebode" on Google Play for Android devices, or on APP Store for iOS devices, then you can view your camera anywhere, anytime on your smart mobile devices.

3.1 Key Features

- Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network
- 1.0 Mega-Pixel
- Supports IE/Firefox/Google/Safari browser or any other standard browsers
- Supports WEP, PA and WPA2 Encryption
- PoE compliant with PoE standards IEEE 802.3af
- IR night vision , Range: 30m
- Supports image snapshot
- Supports dual-stream
- Supports IR-Cut and the filter change automatically
- Embedded IPCAM DDNS(dynamic domain name service) Service
- Supports remote viewing & record from anywhere anytime
- Multi-level users management with password protection
- Motion detection alert via email or upload image to FTP
- Supporting Third Party Domain name
- Providing Phone APPs for Android and iPhone users
- Supports multiple network protocols: HTTP / HTTPS / RTSP / TCP / IP / UDP / FTP / DHCP / DDNS / UPNP / ONVIF
- Providing Central Management Software to manage or monitor multi-cameras

3.2 Read Before Use

Please first verify that all contents received are complete according to the Package Contents listed below. Before the Network Camera is installed, please carefully read and follow the instructions in the Quick Installation Guide to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

3.3 Physical Description
Front Panel



Figure 3.1

- 1. Infrared LED: Wireless Antenna.
- 2. LENS: CMOS sensor with fixed focus lens.
- 3. Induction IC.
- 4. Infrared LED: 12 IR LEDs

Interface



Figure 3.2

1. I/O alarm terminal block (Not available for this camera)

This network camera provides a I/O alarm terminal block which is used to connect to external input / output device. The pin(there are four number in the terminal block from no. 1 to no. 4) definitions are as follows: 1.) input, 2). input, 3). output, 4). output.

This camera supports I/O alarm, you can go to Settings-Alarm - I/O page to configure it.

2. LAN

10/100M adaptive Ethernet interface. Through this interface, IPCAM can be connected with various network devices, such as hub, router, etc.

3. Reset Button

Press and hold on the reset button for 5 seconds. Releasing the reset button, the password will back to the factory default administrator password. The default administrator user is admin with no password.

4. Power Interface

Connect the external power adapter, request for 12V/2A power.

5. Audio input interface

The jack is used to plug external input device such as sound pick up device directly. Here microphone cannot directly insert to the interface, it must connect to commutator first.

6. Audio output interface.

The jack is used to plug external output device such as loud speaker directly. Here microphone cannot directly insert to the interface, it must connect to commutator first.

7. RS486 Cradle head interface (Not available for this camera)

This camera supports the standard 485 cradle head protocol (Pelco-D and Pelco-P). Please configure the RS485 protocol corresponding information first (go to Settings- PTZ - RS485 Configuration page and do settings), or else the cradle head may cannot work.

Bottom View

There are up to three labels located at the bottom of the camera; this is an important feature of original cameras. If your camera does not have labels as shown in Figure 3.3 and 3.4, it may be a clone. Cloned cameras cannot use original firmware and are not eligible for warranty or technical services.

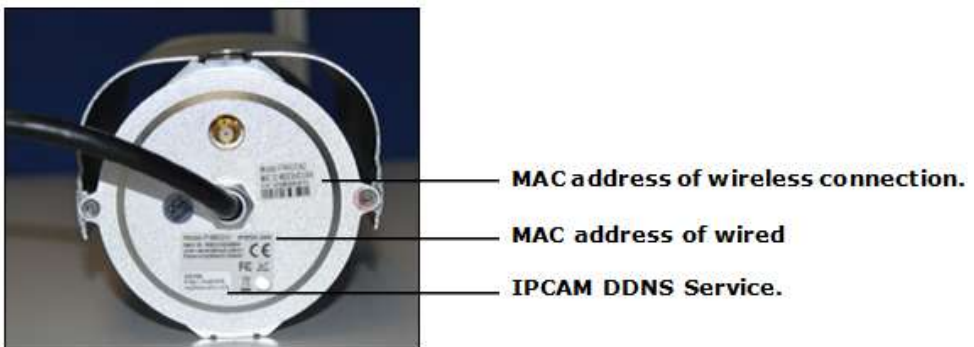


Figure 3.3



Figure 3.4

4. Access the IP Camera

This chapter explains how to access the camera through browser and RTSP player.

4.1 Access the Camera in LAN

This camera supports HTTP and HTTPS protocols, so here will allow you to use HTTP and HTTPS port No.

1). Http:// LAN IP + Http Port No.

Double click the IP Camera Tool icon and it should find the camera's IP address automatically after you plug in the network cable.

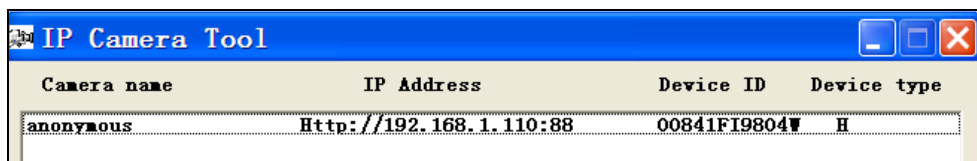


Figure 4.1

Double click the IP address of the camera; your default browser will open to the camera login page.

2). Https:// LAN IP + Https Port no.

The default Https port no. is 443. You can use the url to access the camera: https:// LAN IP + HTTPS port.

Go to Settings - Network - Port panel , you can see and change the https port no.



Figure 4.2

HTTPS(Hypertext Transfer Protocol over Secure Socket Layer) is a safe way to access your camera, the data transferred on the Internet will be encrypted.

4.2 Access the Camera in WAN

4.2.1 Static IP Addresses

Users who have static IP addresses do not need to set DDNS service settings for remote access. When you have finished connecting the camera using the LAN IP address and port forwarding, you can access the camera directly from the Internet using the WAN IP address and port number.

How to Obtain the WAN IP address from a public website ?

To obtain your WAN IP address enter the following URL in your browser: <http://www.whatismyip.com>. The webpage at this address will show the current WAN IP.



Figure 4.3

Access your IP Camera from the Internet

You can access the IP Camera from the Internet (remote access). Enter the WAN IP address and port number in your standard browser. For example, you would enter <http://183.37.28.254:85>

NOTES: Make sure port forwarding is successful. You can do port forwarding two ways.

1) Login to your router to enable the "UPNP" function. You can then login to the camera as administrator, choose Network, and then choose UPnP to enable UPnP. Make sure that the status of UPnP reads "UPnP Successful" on the Device Status page.

2) Do port (HTTP port) forwarding manually. (See Figure 2.11 for further details). If your router has a Virtual Server, it can do port forwarding. Add the camera's LAN IP and port which you had set earlier to your router's port forwarding settings.

If you plug the camera into a router, it will have a dynamic IP address and you need to set DDNS service settings to view it remotely.

Step 1: Enter the username and password of the Administrator (default username is admin with a blank password), and click "OK" to apply changes.

Step 2: Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.8.102:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.8.102:2000. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!

4.2.2 Dynamic IP Addresses

DDNS is a service that allows your IP Camera, especially when assigned with a dynamic IP address, to have a fixed host and domain name. This means that even though your WAN IP address is constantly changing, you will have a fixed hostname you can use to access your cameras at all times. You can access the camera directly from the Internet using the hostname and port number.

What is the HTTP Port no.?

- 1) Default HTTP Port is 88
All cameras have the default HTTP port of 88. For example, if the LAN IP link of the camera is http://192.168.8.102:88, this means that the camera's HTTP port is 88. You can change port 88 to another port if you'd like such as 2000 or 8090, which will not be conflict with other existing ports like 25, 21,10000.Here you can set the port no. between 1 and 65535.
- 2)Change the default http no.88 to another one.

How to assign a different HTTP Port No. and fixed the LAN IP of the camera by the IP Camera Tool?

Step 1: Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 2.8 and 2.9.

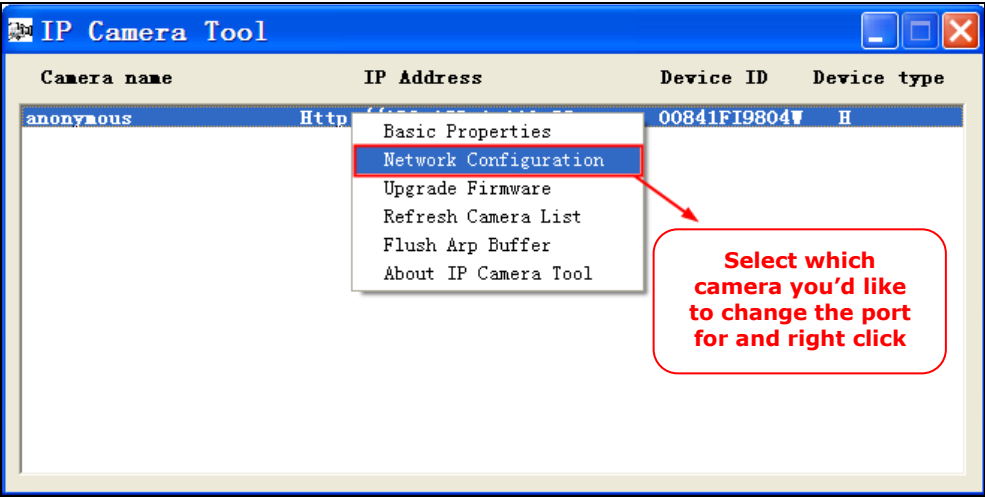


Figure 4.5

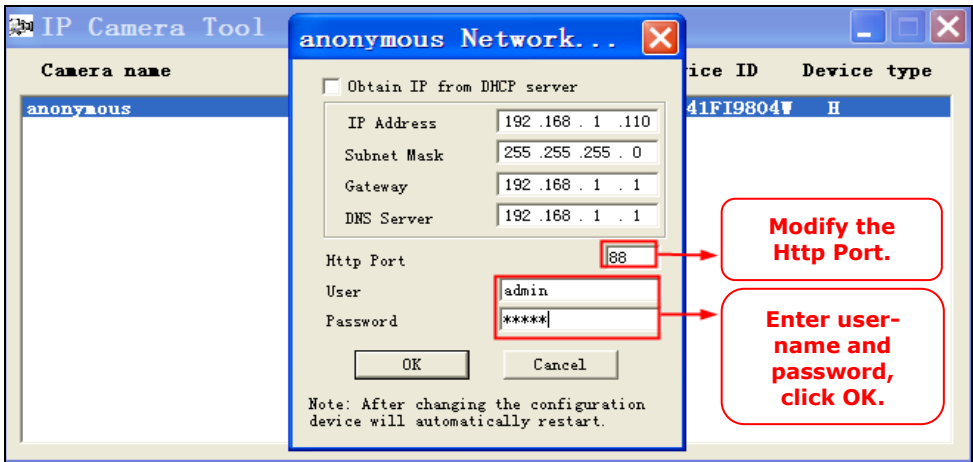


Figure 4.6

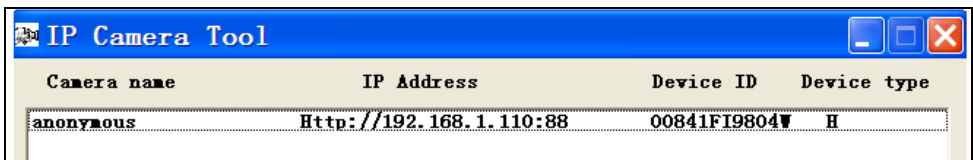


Figure 4.7

What is Port forwarding?

If you have never done port forwarding before, you can open and view the following link to understand the basic concept. Port forwarding allows for outside connections to access a specific device on your network from anywhere in the world. Every router automatically blocks any incoming connections for safety purposes. Using port forwarding, you are telling your router to allow a connection through a certain port (you can think of it as a gateway) into your router. You set this port to a specific device, in our case an IP Camera, so it can be accessed from anywhere in the world.

Click <http://portforward.com/help/portforwarding.htm> to learn more about port forwarding:

How do we configure Port Forwarding ? For this section, we will be using an example:

Let's say the camera's LAN IP address is <http://192.168.8.100:2000>

Step 1: Login to the router, and go to your router's port forwarding or port triggering menu. Sometimes this is also under the name of Virtual Server or NAT.

Using the Linksys brand router as an example, we would log into the router, and go to the Applications & Gaming menu. We would then click on the "Single Port Forwarding" sub-menu.

Step 2: Create a new column using the LAN IP address & HTTP Port of the camera within the router as shown below, then push OK or Submit to save your settings:

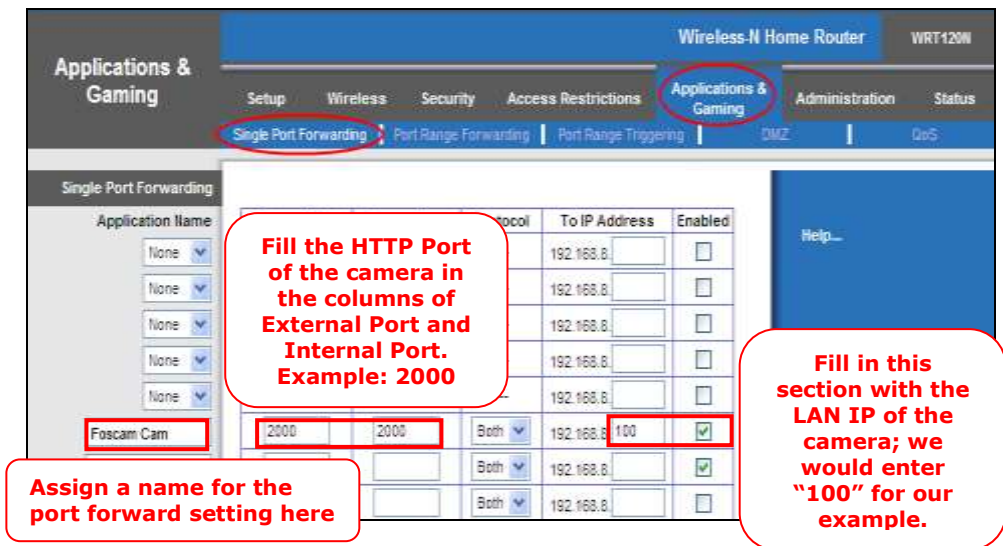


Figure 4.8

First method :

Use the embedded DDNS to access the camera via the Internet

Each camera has an embedded unique DDNS domain name, the format of this domain name is xxxxxx.myipcamera.org. On the bottom of the camera, you can see the domain name sticker with this information on it.

For example, we can use cp4911.myipcamera.org. In the camera, click Settings at the top, click "Network" on the left, then click "DDNS" to get to the DDNS settings page. Here you can see the unique domain name of your camera.

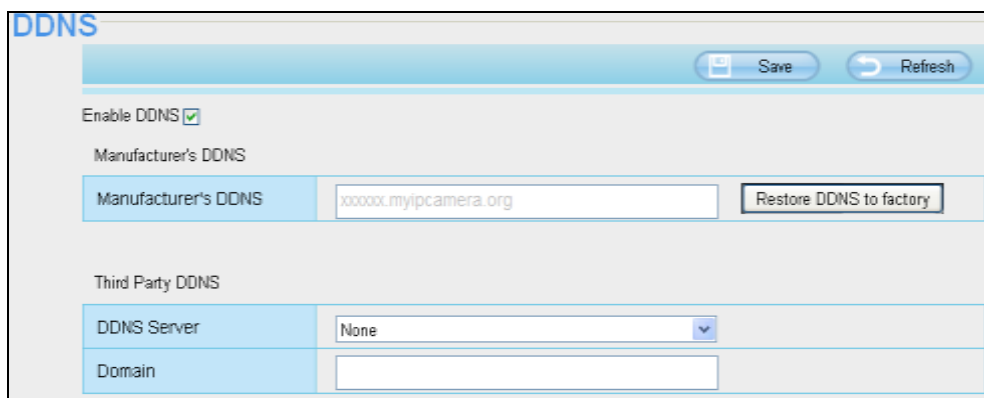


Figure 4.9

Now you can use "http://Domain name + HTTP Port" to access the camera via Internet. Take hostname cp4911.myipcamera.org and HTTP Port of 2000 for example, the URL link to access the camera via the Internet would be [http:// test09.myipcamera.org:2000](http://test09.myipcamera.org:2000).

Second method :

Use the Third party DDNS to access the camera via the Internet

Step 1: Please go to the third party DDNS website(such as www.no-ip.com) to create a free hostname.

Step 2: DO DDNS Service Settings within the Camera

Please set DDNS Settings within the camera by hostname, a user name and password you've got from www.no-ip.com. Take hostname ycxgwp.no-ip.info, user name test, password test2012 for example.

Firstly, goes to option of DDNS Settings on the administrator panel. Secondly, select No-IP as a server. Thirdly, fill test as DDNS user, fill password test2012 as DDNS password, fill ycxgwp.no-ip.info as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective. Fourthly, after the restart, login the camera, and go to option of Device Status on the administrator panel, and check if the DDNS status is successful. If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.

NOTE: If you have set Third Party DDNS successfully, the IPCAM Domain Name will be invalid. The Third Party DDNS and the IPCAM Domain Name cannot work at the same time, the last time you configured will take effect.

4.3 Using the VLC player

This camera supports RTSP streaming, here you can view the camera using VLC player.

RTSP URL [rtsp:// \[user name\]\[:password\]@IP:HTTP port number/videosream](rtsp://[user name][:password]@IP:HTTP port number/videosream)

The part in the square brackets may be omitted.

user name & password: Username and password for camera access. This can be omitted.

IP: WAN or LAN IP address.

Videostream: Here support three modes: videoMain, videoSub and audio. When the network speed is bad, here you had better select videoSub. If you select audio, you can only hear the sound but cannot see the video.

For example:

IP: 192.168.1.11

HTTP Port number: 88

User name: admin

Password: 123

Here I can enter one of the following URLs in the VLC.

- 1) <rtsp://admin:123@192.168.1.11:88/videoMain>
- 2) [rtsp:// @192.168.1.11:88/videoMain](rtsp://@192.168.1.11:88/videoMain)
- 3) <rtsp://:123@192.168.1.11:88/videoMain>
- 4) <rtsp://admin@192.168.1.11:88/videoMain>

Open the VLC, go to Media → Open Network Stream option, then enter the URL into VLC.

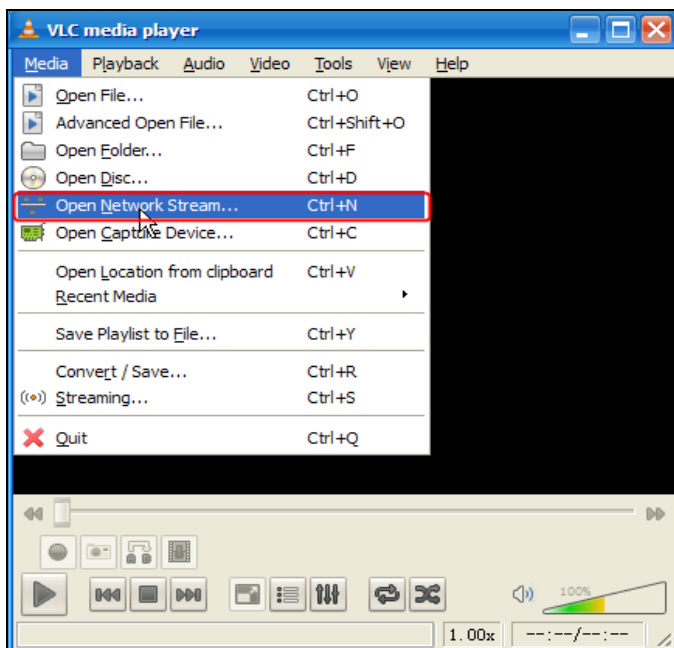


Figure 4.10

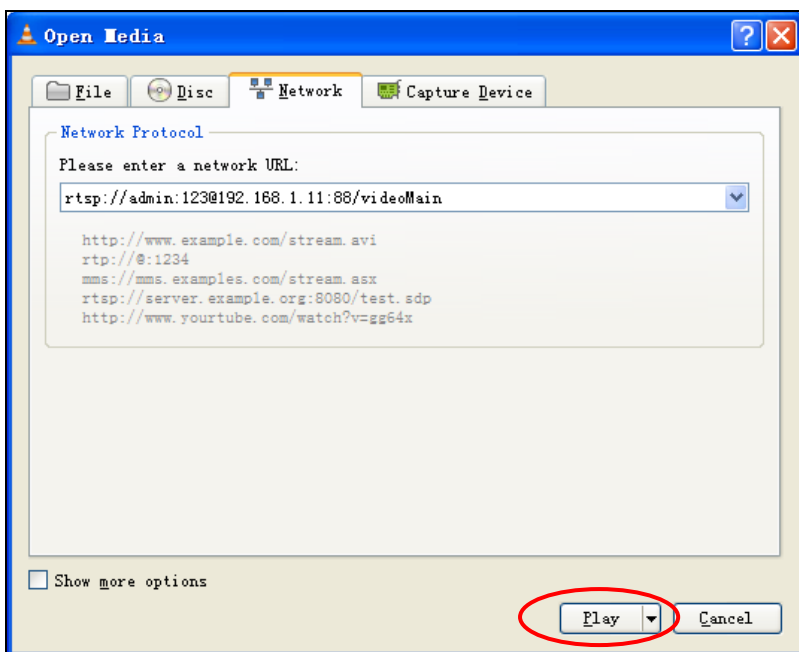


Figure 4.11

Sometimes you may need to enter the user name and password again. Click OK and you can see the real-time preview.



Figure 4.12

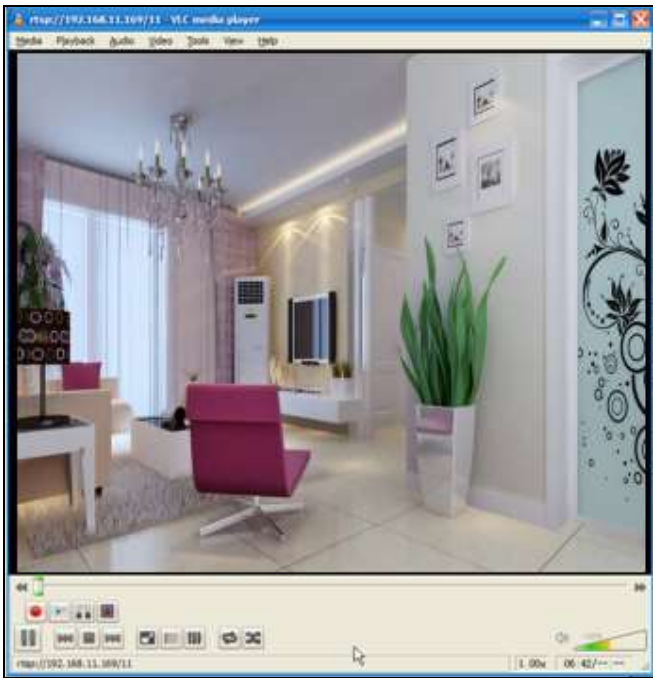


Figure 4.13

If you cannot play the video in the VLC player, please check the port mapping. You can read Quick Installation Guide about How to configure port forwarding.

NOTE: If you modify the camera’s username or password, you had better reboot the camera, or else the new username and password cannot take effect when you enter the authentication in the VLC.

4.4 IP camera connection to the server

Device supports ONVIF 2.2.1 protocol,You can easily access the NVR with ONVIF or server with ONVIF.

5. Surveillance Software GUI

Please refer to the Quick Installation Guide if you install the camera at first time. After finishing quick installation, you can take time to learn the operation of the software.

5.1 Login Window

The screenshot shows the login window of the surveillance software. It features four input fields and a login button, each highlighted with a red box and a number indicating the step order:

- 1**: Username and Password fields. The Username field contains the text "admin".
- 2**: Stream dropdown menu. The selected option is "Main stream".
- 3**: Language dropdown menu. The selected option is "English".
- 4**: Login button.

Figure 5.1

Please check the login window above, it was divided to 4 sections from no. 1 to 4.

1. Enter the Username and password

The default administrator username is admin with no password, please reset the password at first using and prevent unauthorized users login the camera (read chapter 5.2.4 about how to change).

2. Stream

The camera supports two stream modes: Main stream and sub stream. If you want to access the camera form LAN, here you can select Main stream. If you want to access the camera from Internet, here we recommend sub stream.

NOTE: When the network bandwidth is badly you'd better select Sub Stream and the video will be more fluency.

3. Select the language

You can select the language you need via click on the language dropdown list to switch.

4. Login the camera

Click Login button and you will see the surveillance windows.(If login the camera for the first time, the page that modify the username and password will appears.)

5.2 **Modify the Username and Password**

When you log in for the first time, it will come to the operating of modify the username and password automatically.



Figure 5.2

Enter the New Username, New password and Confirm the password. Click Modify button, you will see the login page again.

5.3 **Surveillance Window**

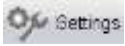


Figure 5.3

1. LiveVideo / Settings buttons



Path to surveillance window. Click this button and back to the surveillance window



Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel and do advanced settings.

2. Multi-Device Window



The firmware supports up to maximum of 9 cameras being monitoring at the same time. You can add other cameras in multi-camera panel.

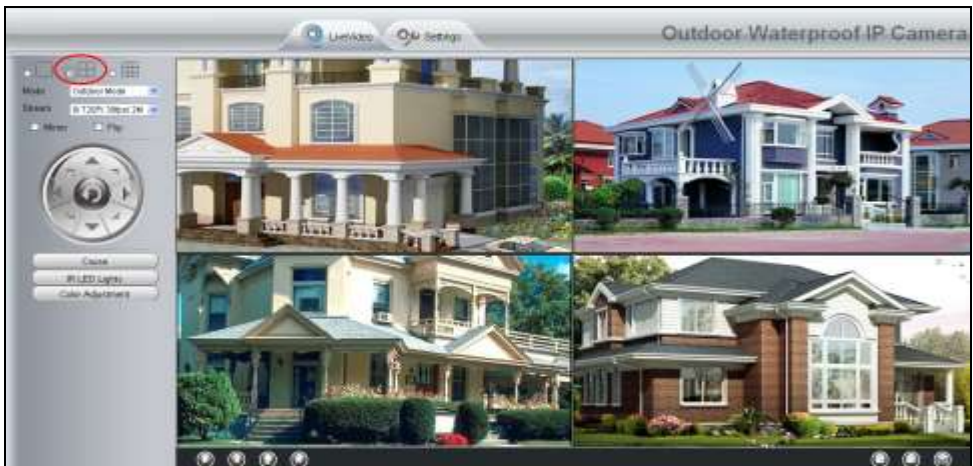


Figure 5.4

3. Mode/ Stream / Mirror/ Flip buttons

Mode

- 1) 50Hz -----Indoor surveillance (Region: Europe, China)
- 2) 60Hz -----Indoor surveillance (Region: USA, Canada)
- 3) Outdoor Mode-----Outdoor surveillance

Stream

The default stream supports multiple modes, For example: 0/720P/30fps/2M meanings: Stream type no. / Resolution / Maximum frame rate/ Bit rate. (Different models support different specific mode.)

1) Stream type number: The number is used to identify the stream type.

2) Resolution

The lowest resolution is QVGA. The bigger the resolution, the better of the image quality is. If you are accessing the camera via internet and want to get more fluent video streaming, please select resolution VGA.

3) Maximum frame rate

When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

4) Bit rate

Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video cannot play well.

You can reset the stream type on "Settings → Video → Video Settings" panel.

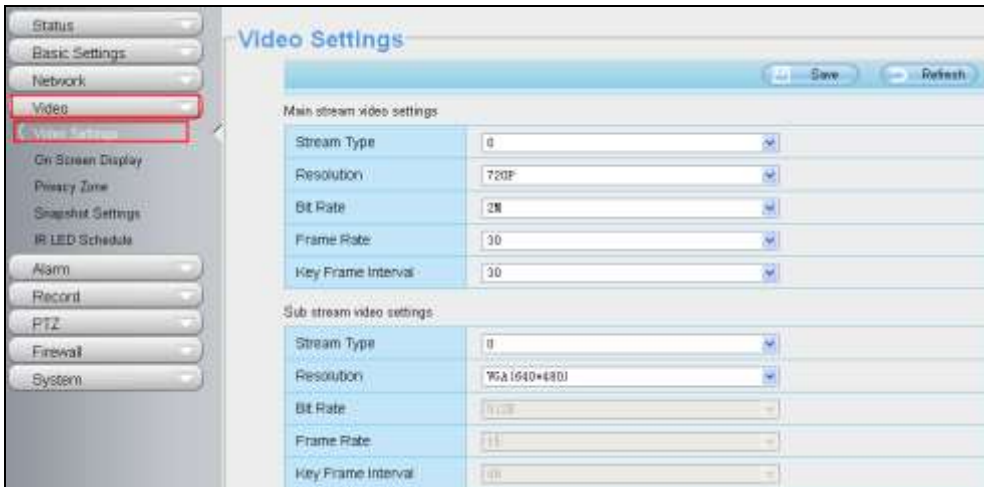
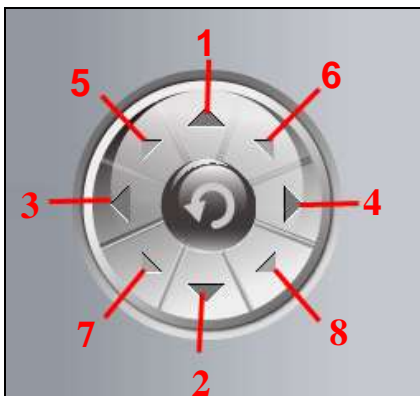


Figure 5.5

4. Pan/Tilt Control (Not available for this camera)

When via RS485 interface to connect an external PTZ device, you can use this feature.



- 1) Up control button.
- 3) Left control button.
- 5) Up-Left control button.
- 7) Down-Left control button.
- 2) Down control button.
- 4) Right control button.
- 6) Up-Right control button.
- 8) Down-Right control button.



Click this button and go to center.

5. Cruise settings (Not available for this camera)

If via RS485 interface to connect an external PT device, you can use this feature.



The default cruise tracks have two types: Vertical (the camera will rotate from up to down) and Horizontal (the camera will rotate from left to right).



Start cruise.

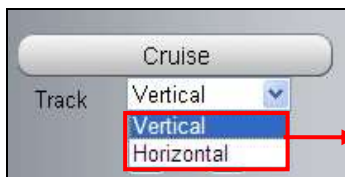


Stop cruise.

If you want to define or change the cruise trace, please go to Settings → PTZ → Preset Settings panel.

How to do cruise?

Firstly: Select one track in the track drop-down list



Select one of these

Secondly: Click Start cruise button, the camera will cruise following the predefined path.
Thirdly: Click stop button and finish cruising.

6. IR LED Lights



Click IR LED Lights and there are two modes to adjust the infrared led: Auto and Off . The default mode is Auto.

Auto: Select it and the camera will adjust the infra led (on or off) automatically.

Manual: Select it and turn off the infra led manually.

Schedule: Select it and the IR led light will be off at the schedule period. If you want to define or change the IR led lights schedule time, please go to Settings → Video → IR LED Schedule page.

7. Image quality settings

In this page, you can tune Hue, Brightness, Contrast, Saturation, and Sharpness to get higher quality.



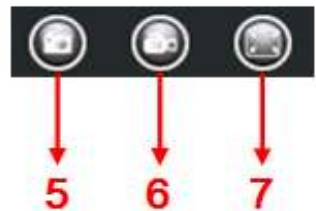
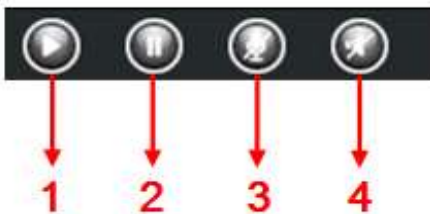
8. OSD




If you have added time and camera name in the video, you can see it in the live window. Go to Settings ---Basic settings---Camera name panel, and you can change another device name. The default device name is anonymous.

Go to Settings ---Basic settings---Camera time panel and adjust the device time.

Go to Settings ---Video---On Screen Display panel, you can add or no add OSD.

9. Play/Stop/ Talk/Audio/ Snap/ Record/ Full screen button



- 1) Play:** Click it to play the video of the camera
- 2) Stop:** Click it to stop the video of the camera
- 3) Talk:** Click the button and the icon will become to , then talk to the microphone that connected with PC, people around the camera can hear your voice if the camera has connected with audio output device. Click the icon again and stop talking.
- 4) Audio:** Click the button and the icon will become to , you can hear the sound around the camera if the camera has connected with other audio input device through the Audio Input port of the camera, Click the icon again and stop audio.
- 5) Snap:** Click it to make snapshot and it pop up a window which picture you snapshot, right click in the window and save the picture to anywhere you want.
- 6) Record:** Click the icon  and the camera start recording, you can see a green dot in the live window. Click again and stop recording. The default storage path is C:\IPCamRecord. You can change the storage path: Go to Settings- >Record-> Storage Location panel.
- 7) Full Screen:** Click it to make full-screen, or you can double click the surveillance screen to make full-screen. Double click again and exit full-screen.

Onscreen Mouse Control

Right click the mouse and you can adjust the full screen and Zoom up.



Figure 5.6

Full Screen: Select it and Click it to make full-screen, press ESC and exit full-screen.

Zoom up/down: Click it and the live view will be digital zoomed up, then click Zoom Down and the live view back to original size.



Figure 5.7

NOTE: For Mac OS, the plugin cannot support Onscreen Mouse function, so you cannot allow to use it.

6. Advanced Camera Settings

Click the button "Settings", goes to Administrator Control Panel to make advanced camera settings.

6.1 Device Status

Device Status contains four columns: Device Information, Device Status, Session Status and Log, it will show you various information about your camera.

6.1.1 Device Information

Device Information		Refresh
Camera Model	FC5511E	
Camera Name	FC5511E	
Camera ID	001111112222	
Camera Time	1970/01/01 16:27:49	
System Firmware Version	1.4.1.8	
Application Firmware Version	1.14.1.10	
Plug-In Version	2.0.1.7	

Figure 6.1

Camera Model: The model of the device.

Camera Name: The Device Name is a unique name that you can give to your device to help you identify it. Click Basic Settings and go to Device Name panel where you can change your camera name. The default device name is anonymous.

Camera ID: Display the MAC address of your camera. For example Device ID is 008414350787, the same MAC ID sticker is found at the bottom of the camera.

Camera Time: The system time of the device. Click Basic Settings and go to Camera Time panel and adjust the time.

System Firmware version: Display the System Firmware version of your camera.

App Firmware version: Display the application firmware version of your camera.

Plug-in version: Display the plug-in version of your camera

4.1.2 Device Status

On this page you can see device status such as Alarm status, NTP/DDNS status, WIFI status and so on.



The screenshot shows a web interface titled "Device Status". It features a "Refresh" button in the top right corner. Below the title is a table with two columns: the status name and its current value.

Device Status	
Alarm Status	Disabled
NTP Status	Failed
DDNS Status	Disabled
UPnP Status	Disabled
WiFi Status	Not connected
IR LED Status	Off

Figure 6.2

4.1.3 Session status

Session status will display who and which IP is visiting the camera now.



The screenshot shows a web interface titled "Session status". It features a "Refresh" button in the top right corner. Below the title is a table with two columns: "User name" and "IP address".

Session status	
User name	IP address
admin	192.168.1.102
admin	218.17.160.187

Figure 6.3

4.1.4 Log

The log record shows who and which IP address accessed or logout the camera and when.

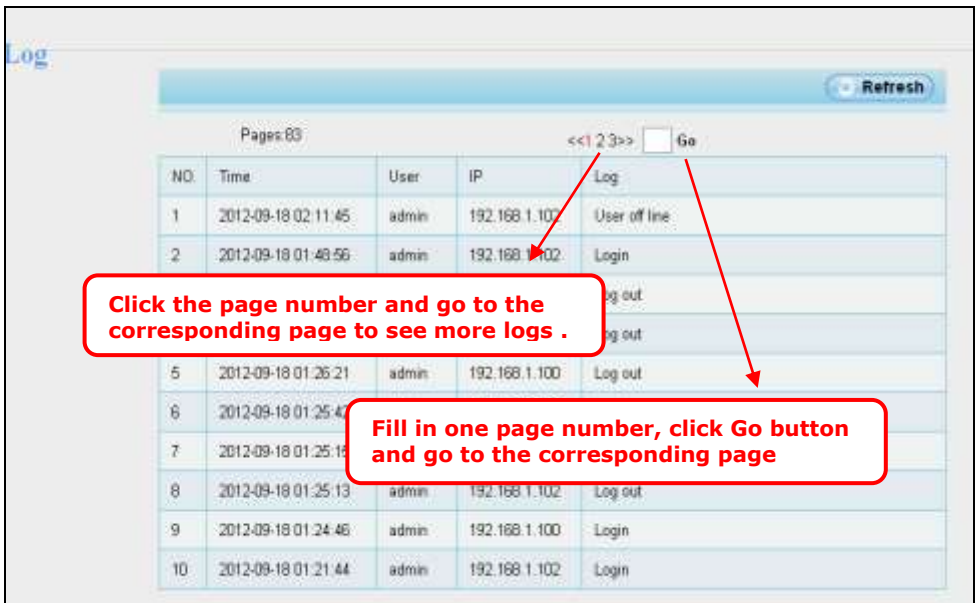


Figure 6.4

6.2 Basic Settings

This section allows you to configure your Camera Name, Camera Time, Mail, User Accounts and Multi-Device.

6.2.1 Camera Name

Default alias is anonymous. You can define a name for your camera here such as apple. Click Save to save your changes. The alias name cannot contain special characters.

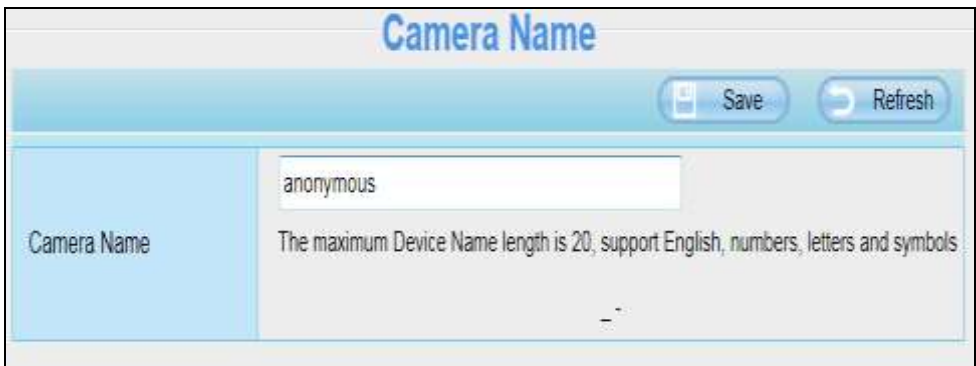


Figure 6.5

6.2.2 Camera Time

This section allows you to configure the settings of the internal system clocks for your camera.

Figure 6.6

Time Zone: Select the time zone for your region from the dropdown menu.

Sync with NTP server: Network Time Protocol will synchronize your camera with an Internet time server. Choose the one that is closest to your camera.

Sync with PC: Select this option to synchronize the date and time of the Network Camera with your computer.

Manually: The administrator can enter the date and time manually. Please select the date and time format.

use DST: Select the use DST, then select daylight saving time from the dropdown menu.

Click Save button to submit your settings.

6.2.3 User Accounts

Here you can create users and set privilege, visitor, operator or administrator. The default administrator user accounts are admin with a blank password.

NO.	Username	Privilege
1	admin	Administrator
2		
3		
4		
5		
6		
7		
8		

Figure 6.7

How to change the password?

Firstly, select the account which you want to change the password, then select "Change password", enter the old password and the new password, lastly click modify to take effect.

The screenshot shows the 'User Accounts' management interface. On the left is a table with columns 'NO.', 'Username', and 'Privilege'. The first row (NO. 1) is highlighted in green, showing 'admin' as the username and 'Administrator' as the privilege. On the right, the 'admin' user is selected for modification. The 'Username' field contains 'admin'. The 'Password' field is masked with dots. The 'New password' field is also masked. The 'Privilege' dropdown menu is set to 'Administrator'. Below these fields are two radio buttons: 'Change username' (unselected) and 'Change password' (selected). A 'Modify' button is located below the radio buttons. At the bottom, there are two lines of text: 'The maximum length of the user name is 20, support numbers, letters and symbols _ - @ \$ *' and 'The maximum password length is 12, does not support the character & ='.

NO.	Username	Privilege
1	admin	Administrator
2		
3		
4		
5		
6		
7		
8		

Username:

Password:

New password:

Privilege:

☐ Change username

☒ Change password

The maximum length of the user name is 20, support numbers, letters and symbols _ - @ \$ *

The maximum password length is 12, does not support the character & =

Figure 6.8

How to add account ?

Select one blank column, then enter the new user name, password and privilege, last click Add to take effect. You can see the new added account on the Account list.

The screenshot shows the 'User Accounts' management interface. On the left is a table with columns 'NO.', 'Username', and 'Privilege'. The second row (NO. 2) is highlighted in green, showing 'operator' as the username and 'Operator' as the privilege. On the right, the 'operator' user is selected for addition. The 'Username' field contains 'operator'. The 'Password' field is masked with dots. The 'Privilege' dropdown menu is set to 'Operator'. Below these fields are two radio buttons: 'Change username' (unselected) and 'Change password' (unselected). An 'Add' button is located below the radio buttons. At the bottom, there are two lines of text: 'The maximum length of the user name is 20, support numbers, letters and symbols _ - @ \$ *' and 'The maximum password length is 12, does not support the character & ='.

NO.	Username	Privilege
1	admin	Administrator
2	operator	Operator
3		
4		
5		
6		
7		
8		

Username:

Password:

Privilege:

☐ Change username

☐ Change password

The maximum length of the user name is 20, support numbers, letters and symbols _ - @ \$ *

The maximum password length is 12, does not support the character & =

Figure 6.9

User Accounts

Refresh

NO.	Username	Privilege
1	admin	Administrator
2	operator	Operator
3		
4		
5		
6		
7		
8		

Usernameoperator

PrivilegeOperator

☐ Change username
 ☐ Change password

Delete

The maximum length of the user name is 20, support numbers, letters and symbols _ - @ \$ *

The maximum password length is 12, does not support the character & =

Figure 6.10

Delete : Select the account which you want to delete, then click Delete button to take effect.

NOTE: The default administrator account cannot be deleted, but you can add other administrator users.

How to change the username ?

Firstly, select the account which you want to change the username, then select "Change username", enter the new password, lastly click modify to take effect.

User Accounts

Refresh

NO.	Username	Privilege
1	admin	Administrator
2	operator	Operator
3		
4		
5		
6		
7		
8		

Usernameoperator

New usernameopr

PrivilegeOperator

☒ Change username
 ☐ Change password

Modify

The maximum length of the user name is 20, support numbers, letters and symbols _ - @ \$ *

The maximum password length is 12, does not support the character & =

Figure 6.11

6.2.4 Multi-Camera

If you want to view multi-surveillance screens on one window, you need to login one camera, and set it as the main device, and do Multi-Device Settings, add other cameras to the first one camera. Before you do multi-cams settings, you need to assign different port such as 81, 82, 83, 84, 85, 86, 87, 88 to the cameras if there is 8 cams installed. The firmware within the camera can support a maximum of 9 devices monitoring all at the same time. This page you can both add IPCAM MJPEG and H.264 series cameras to the first camera and view multi-surveillance screen on one window.

Add cameras in LAN

In Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is the default one. You can add more cameras in the list in LAN for monitoring. The camera's software supports up to 9 IP Cameras online simultaneously. Click The 2nd Device and click the item in the Device List in LAN, the Alias, Host and Http Port will be filled in the boxes below automatically. Enter the correct username and password then click Add. Add more cameras in the same way.

1 Click it, camera model, alias, host and HTTP Port will be filled in the following boxes automatically

2 Enter the User name and password of the 2nd camera

3 Click Add to take effect

Figure 6.12

Camera Model: Our Company produces two series cameras: MJPEG and H.264. Here will show you which series the camera belongs to.

<div>Refresh</div>	
Cameras On LAN	<div> <div>anonymous(192.168.11.193)</div> <div>FI9821W for ebuyer (192.168.11.241)</div> <div>anonymous(192.168.11.203)</div> <div>anonymous(192.168.11.243)</div> </div> <div>Refresh</div>
The 1st Camera	This Camera
The 2nd Camera	anonymous(192.168.11.203)
The 3rd Camera	FI9821W for ebuyer (192.168.11.241)
The 4th Camera	anonymous(192.168.11.203)
The 5th Camera	None
The 6th Camera	None
The 7th Camera	None
The 8th Camera	None
The 9th Camera	None
Note: If you want to access your camera remotely, make sure you are able to access it separately through a browser.	

Figure 6.13

Back to Surveillance Windows, and click Four Windows option, you will see four cameras you added.



Figure 6.14



Figure 6.15

Add cameras in WAN

If you want to view all cameras via the internet(remote computer), you will need to add them using DDNS domain name. Firstly, make sure all of the cameras you added can be accessed through the internet. (Read How to configure DDNS settings in chapter 6.3.3) Login to the first camera using a DDNS domain name and port.

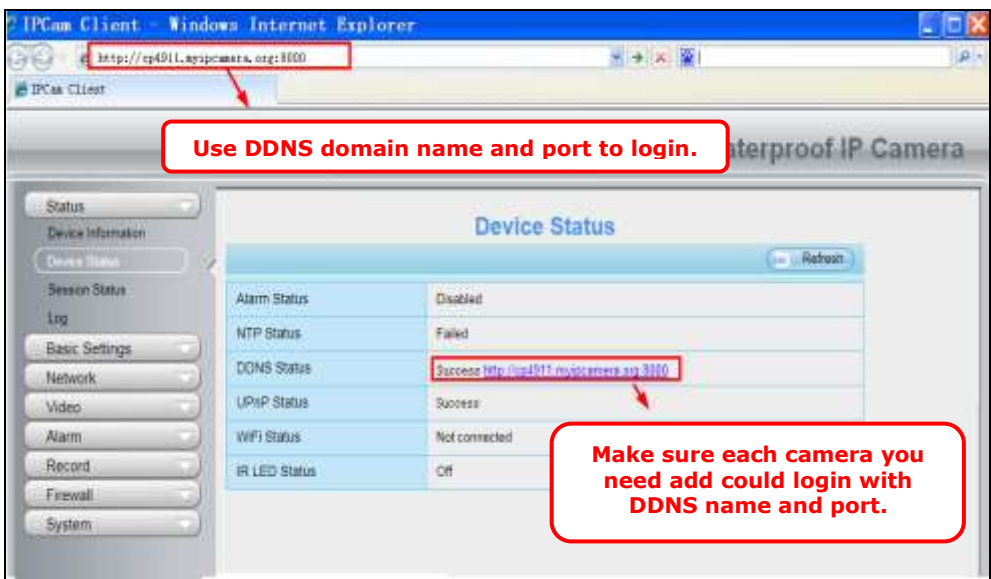


Figure 6.16

Click Multi-Device Settings. Choose The 2nd Device. Fill in the 2nd camera's name, DDNS domain name, port number. Enter user name and password and then choose Add.

Cameras On LAN	
	F19821W for ebuyer (192.168.11.241) anonymous(192.168.11.243) anonymous(192.168.11.203)

The 1st Camera	This Camera
The 2nd Camera	anonymous(192.168.11.203)
Camera Model	MJ
Camera Name	apple
Host	camera.no-ip.info
HTTP Port	801
Media Port	801
Username	admin
Password	
	Add Delete
The 3rd Camera	None
The 4th Camera	None

Figure 6.17

- 1) The camera model: MJ or H264.
- 2) The 2nd camera's name
- 3) Fill in the 2nd camera's DDNS host not LAN IP
- 4) Enter the 2nd camera's user name and password
- 5) Click Add button and to take effect

NOTE: Here the Host must be entered as the second camera's DDNS domain name, not its LAN IP.

Refresh	
Device List in LAN	<div> apple(192.168.13.102) mycamera(192.168.13.108) ipcam(192.168.13.107) F19821W-01(192.168.13.106) </div> <div>Refresh</div>
The 1st Device	This Device
The 2nd Device	apple(camera.no-ip.info)
The 3rd Device	ipcam(test01.foscam.org)
The 4th Device	mycamera(owlejeww.no-ip.info)
The 5th Device	None
The 6th Device	None
The 7th Device	None
The 8th Device	None
The 9th Device	None
Attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	

Figure 6.18

Return to video window. You will see all of the cameras accessible through the internet. When you are away from home, you can use the first camera's DDNS domain name and port to view all the cameras via internet.

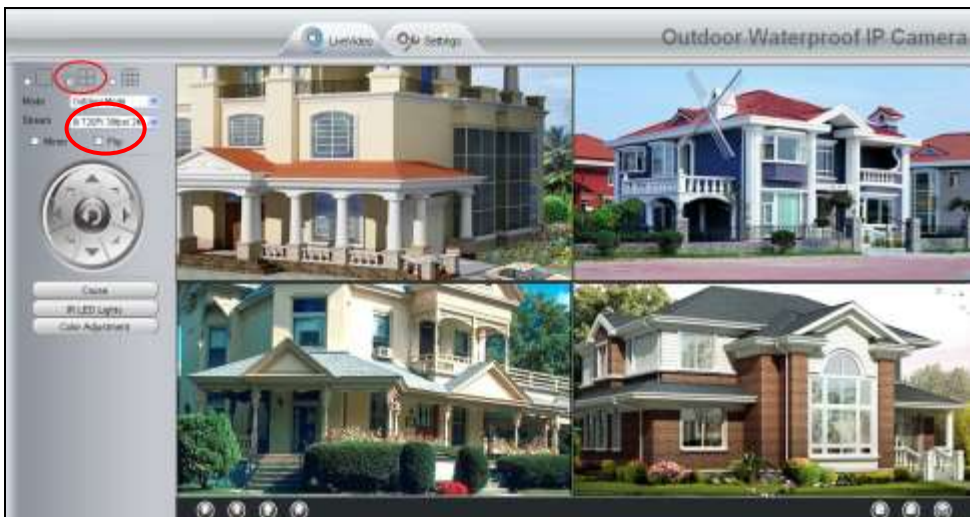


Figure 6.19

6.3 Network

This section will allow you to configure your camera’s IP, PPOE, DDNS, Wireless Settings, UPnP, Port, Mail Settings and FTP Settings.

6.3.1 IP Configuration

If you want to set a static IP for the camera, please go to IP Configuration page. Keep the camera in the same subnet of your router or computer.

SaveRefresh

Obtain IP From DHCP☐

IP Address	192.168.0.109
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
Primary DNS Server	192.168.0.1
Secondary DNS Server	202.96.134.133

Note:Once you save your settings, the camera will restart.

Figure 6.20

Changing settings here is the same as using the IP Camera Tool. (Figure 4.23/4.24)
It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don’t know the subnet mask, gateway and DNS server, you can check your computer’s local area connection as follows: Control Panel--Network Connections--Local Area Connections --Choose Support--Details.

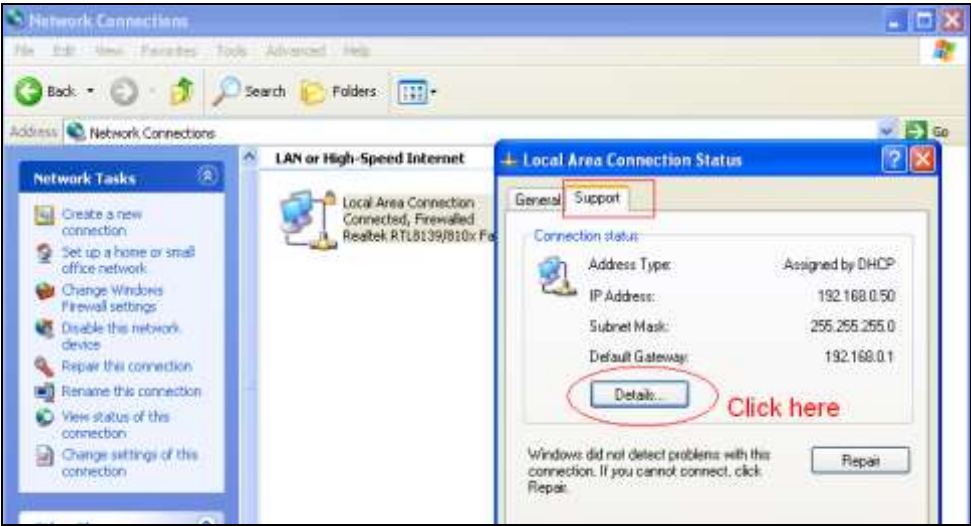


Figure 6.21

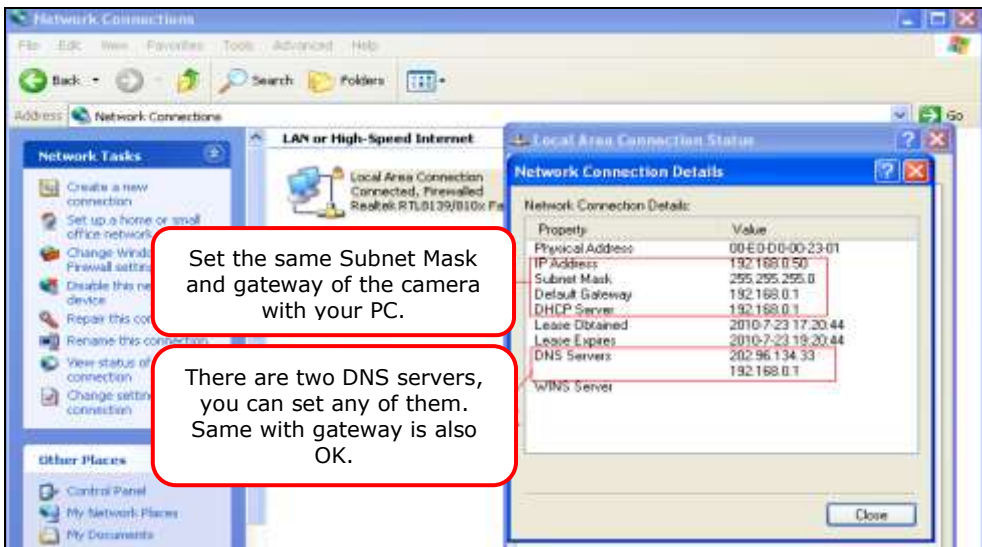


Figure 6.22

If you don't know the DNS server, you can use the same settings as the Default Gateway.

6.3.2 Wireless Settings

Step 1: Choose "Settings" on the top of the camera interface, and go to the "Network" panel on the left side of the screen, then click "Wireless Settings." Click the Scan button and the camera will detect all wireless networks around the area. It should also display your router in the list.

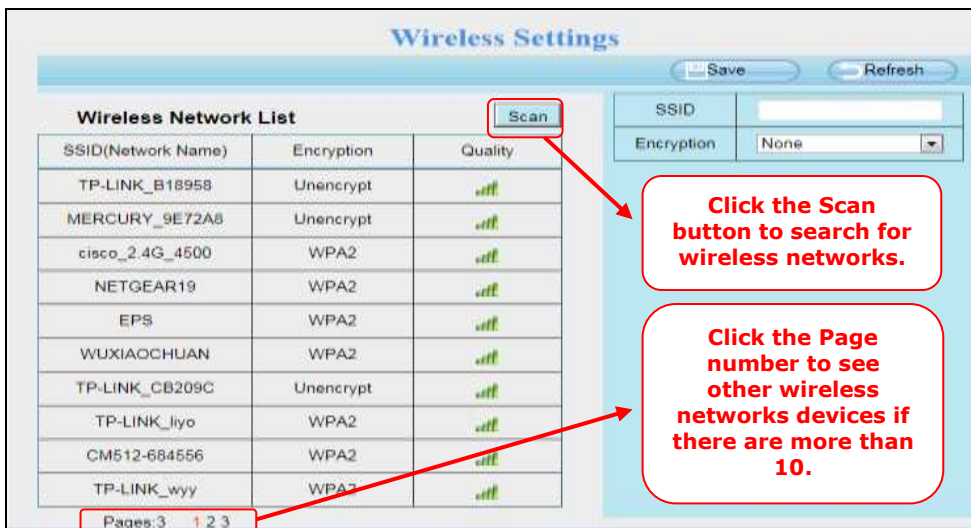


Figure 6.23

Step 2: Click the SSID (name of your router) in the list, the corresponding information related to your network, such as the name and the encryption, will be filled into the relevant fields automatically. You will only need to fill in the password of your network. Make sure that the SSID, Encryption and the password you filled in are exactly the same for your router.

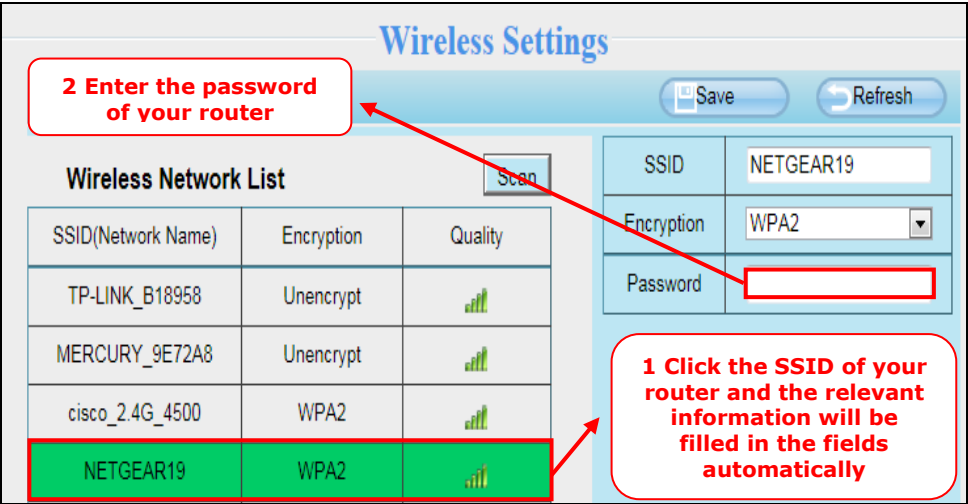


Figure 6.24

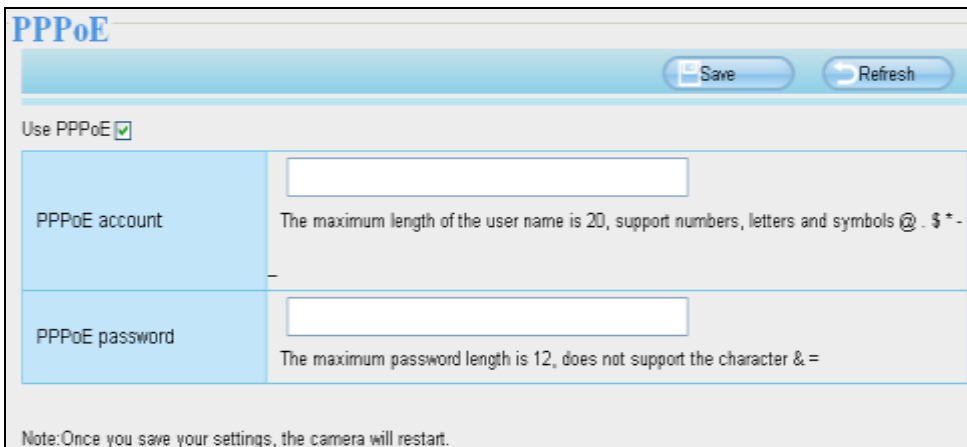
Step 3: Please click on the Save button after all settings have been entered and disconnect the network cable. Never shut down the power of the camera until the IP camera is able to connect to the wireless network.

The LAN IP address will disappear on the window of IP Camera Tool when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the window of the IP Camera Tool. The IP address may have changed after the camera receives a wireless connection; we recommend setting a static local IP address if this IP address changes by right clicking the camera in IP Camera Tools, setting a static IP, and pushing OK. Congratulations! You have set up the wireless connection of the camera successfully.

NOTE: If you fail to make a wireless connection, please refer to your seller or contact us directly for assistance.

6.3.3 PPPoE

If you are using a PPPoE connection, enable it and enter the User Name and Password for your PPPoE account.



PPPoE

Save Refresh

Use PPPoE ☒

PPPoE account
The maximum length of the user name is 20, support numbers, letters and symbols @ . \$ * -

PPPoE password
The maximum password length is 12, does not support the character & =

Note: Once you save your settings, the camera will restart.

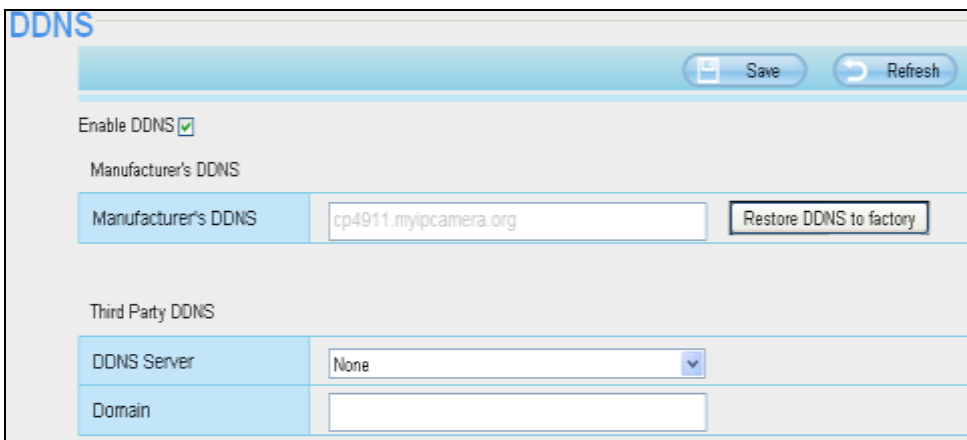
Figure 6.25

6.3.4 DDNS

The camera has embedded a unique DDNS domain name when producing, and you can directly use the domain name, you can also use the third party domain name.

IPCAM domain name

Here take cp4911.mypcamera.org for example. Go to option of DDNS on the Settings->Network panel, you can see the domain name.



DDNS

Save Refresh

Enable DDNS ☒

Manufacturer's DDNS

Manufacturer's DDNS Restore DDNS to factory

Third Party DDNS

DDNS Server

Domain

Figure 6.26

Now you can use http:// Domain name + HTTP Port to access the camera via internet. Take hostname cp4911.mypcamera.org and HTTP Port no. 8000 for example, the accessing link of the camera via internet would be http://cp4911.mypcamera.org:8000

Restore DDNS to factory: If you have configured Third Party DDNS successfully, but you want to use Manufacturer's DDNS again , here click this button and start Manufacturer's DDNS Service.

Third Party Domain Name Settings

User can also use third part DDNS, such as www.no-ip.com. ,www. 3322.com. Here take www.no-ip.com for example:

① Step 1. Go to the website www.no-ip.com to create a free hostname

Firstly: Login on www.no-ip.com and click No-IP Free to register.



Figure 6.27

Please register an account step by step according to instructions on www.no-ip.com

After registration, please login your email which used to register. You will receive an email from website, please click the link to activate your ACCOUNT as indicated in email.

Secondly: Login the link with the registered username and password to create your domain name.



Figure 6.28

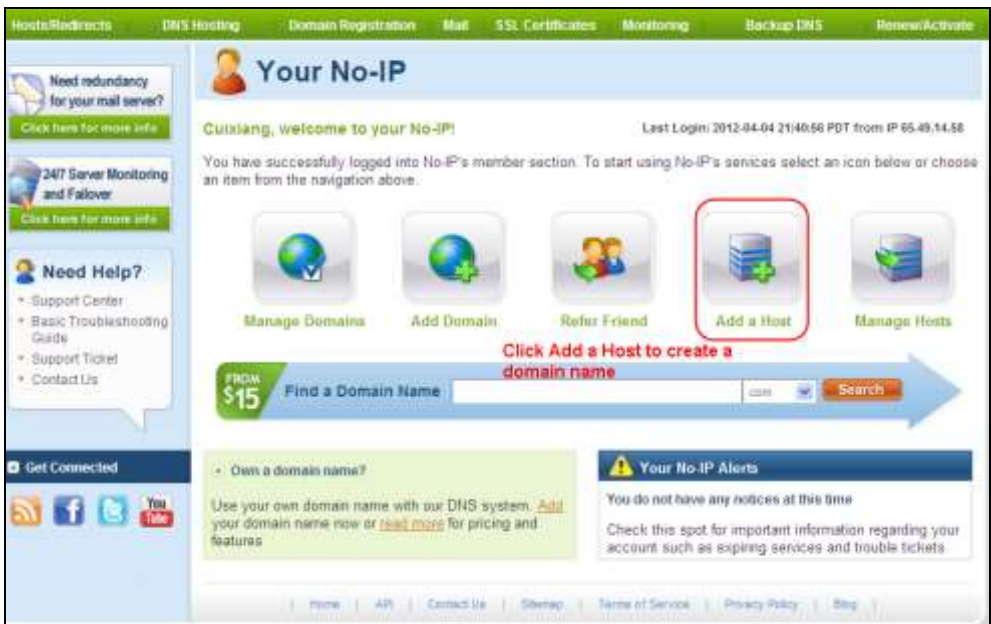


Figure 6.29

Please create the domain name step by step according to instructions on www.no-ip.com

Step 2 DO DDNS Service Settings within the Camera

Please set DDNS Settings within the camera by hostname, a user name and password you’ve got from www.no-ip.com
Take hostname [ycxgwp.no-ip.info](http://www.ycxgwp.no-ip.info), user name test, password test2012 for example.

Firstly, goes to option of DDNS Settings on the administrator panel.

Secondly, select No-IP as a server.

Thirdly, fill test as DDNS user, fill password test2012 as DDNS password, fill [ycxgwp.no-ip.info](http://www.ycxgwp.no-ip.info) as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

Fourthly, after the restart, login the camera, and go to option of Device Status on the administrator panel, and check if the DDNS status is successful.
If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.

NOTE: If you have set Third Party DDNS successfully ,the IPCAM Domain Name will be invalid. The Third Party DDNS and the IPCAM Domain Name cannot work at the same time, the last time you configured will take effect.

② Do port forwarding within the router

Example: The camera’s LAN IP address is <http://192.168.8.100:2000>. Firstly, login the router, goes to the menu of Port Forwarding or Port Trigger (or named Virtue Server on some brands of router). Take Linksys brand router as an example, Login the router, and goes to Applications & Gaming->Single Port Forwarding. Secondly, Create a new column by LAN IP address & HTTP Port No. of the camera within the router showed as below.

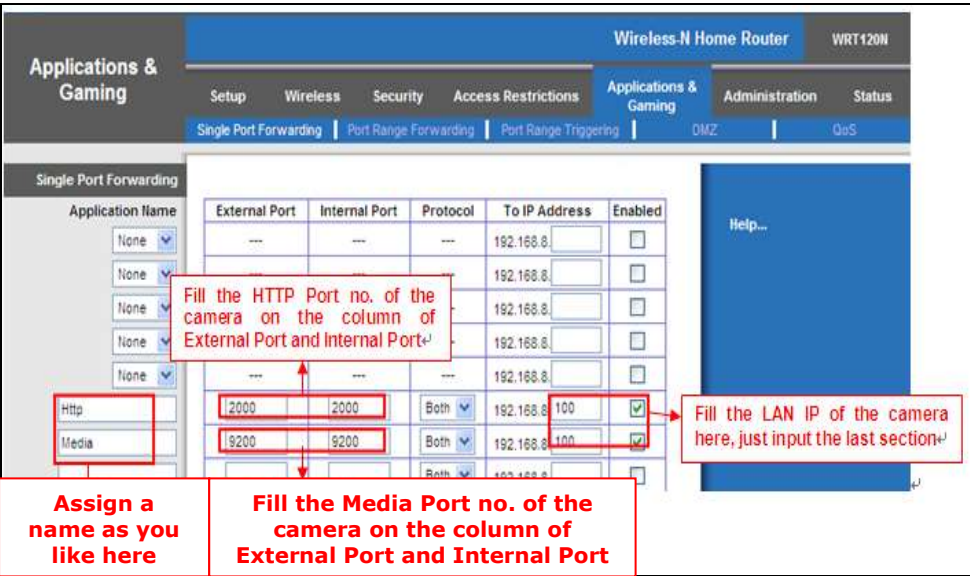


Figure 6.30

③ Use domain name to access the camera via internet

After the port forwarding is finished, you can use the domain name+ http no. to access the camera via internet. Take hostname ycxgwp.no-ip.info and http no 2000 for example, the accessing link of the camera via internet would be http:// ycxgwp.no-ip.info:2000

6.3.5 UPnP

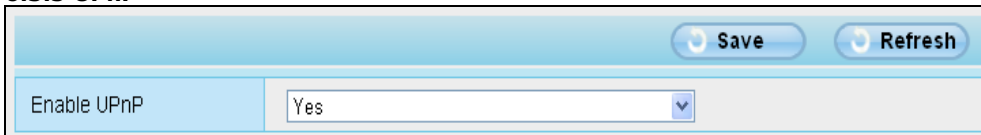


Figure 6.31

The default UPnP status is closed. You can enable UPnP, then the camera's software will be configured for port forwarding. Back to the "Device Status" panel, you can see the UPnP status:



Device Status	
Alarm Status	Disabled
NTP Status	Failed
DDNS Status	Success http://cp4911.mylpcamera.org:8000
UPnP Status	Success
WIFI Status	Not connected
IR LED Status	Off

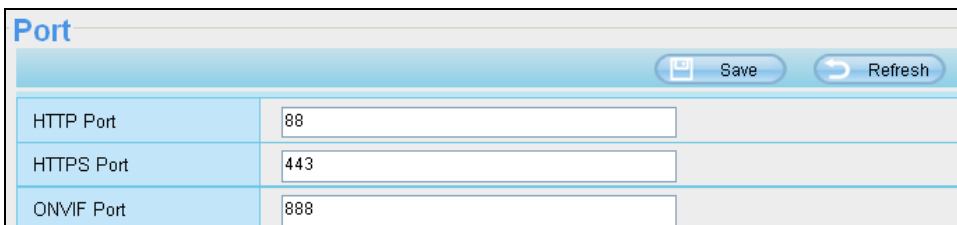
Figure 6.32

The camera's software will be configured for port forwarding. There may be issues with your routers security settings, and sometimes may error. We recommend you configure port forwarding manually on your router (Figure 4.30).

6.3.6 Port

This camera supports HTTP Port / HTTPS Port/ ONVIF Port. HTTP Port is used to access the camera remotely.

HTTP port : By default, the HTTP is set to 88. Also, they can be assigned with another port number between 1 and 65535. But make sure they can not be conflict with other existing ports like 25, 21.



Port	
HTTP Port	<input type="text" value="88"/>
HTTPS Port	<input type="text" value="443"/>
ONVIF Port	<input type="text" value="888"/>

Figure 6.33

Another way to change the HTTP port no.

Step 1: Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 6.34 and 6.35.

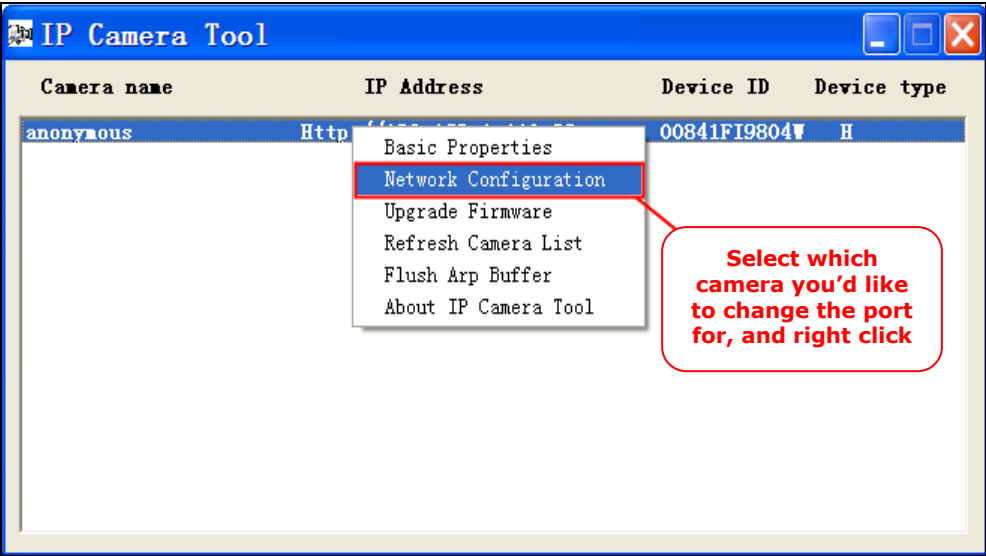


Figure 6.34

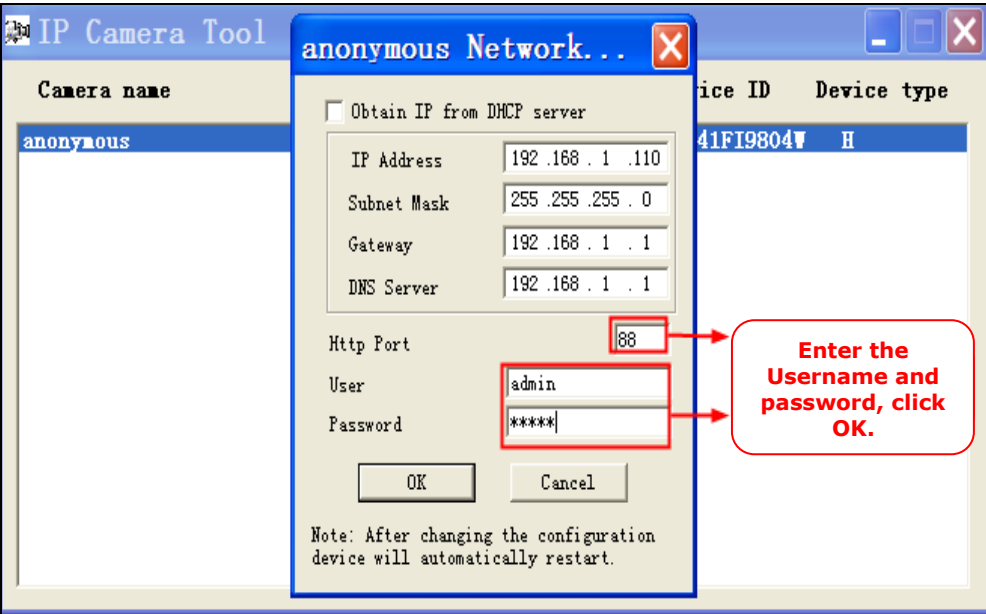


Figure 6.35

Step 2: Enter the username and password of the Administrator (default username is admin with a blank password), and click "OK" to apply changes.

Step 3: Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.8.102:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.8.102:2000. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!

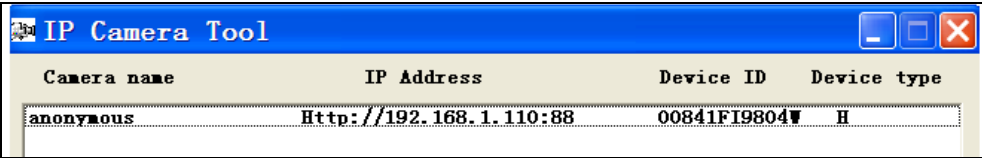


Figure 6.36

If the camera cannot be accessed, please make sure the port forwarding is succeed.

HTTPS port: The default port is 443. You can use the URL to access the camera: https:// IP + HTTPS port.

ONVIF port: By default, the ONVIF port is set to 888. Also, they can be assigned with another port number between 1 and 65535(except 0 and 65534). But make sure they cannot be conflict with other existing ports.

RTSP function: RTSP URL rtsp:// [user name][:password]@IP:HTTP port number / videosream. The part in the square brackets may be omitted.

user name & password: The user name and password to access the camera. This part can be omitted.

IP: WAN or LAN IP address.

Videostream: Here support three mode: videoMain, videoSub and audio. When the network speed is bad, here you had better select videoSub. If you select audio, you can only hear the sound but cannot see the video.

For example:

IP: 192.168.1.11

HTTP Port number: 88

User name: admin

Password: 123

Here I can enter one of the following URLs in the VLC.

Figure 4.1 rtsp://admin:123@192.168.1.11:88/videoMain

Figure 4.2 rtsp:// @192.168.1.11:88/videoMain

Figure 4.3 rtsp://:123@192.168.1.11:88/videoMain

Figure 4.4 rtsp://admin@192.168.1.11:88/videoMain

Open the VLC, and go to Media. Open Network Stream option and enter URL into VLC.

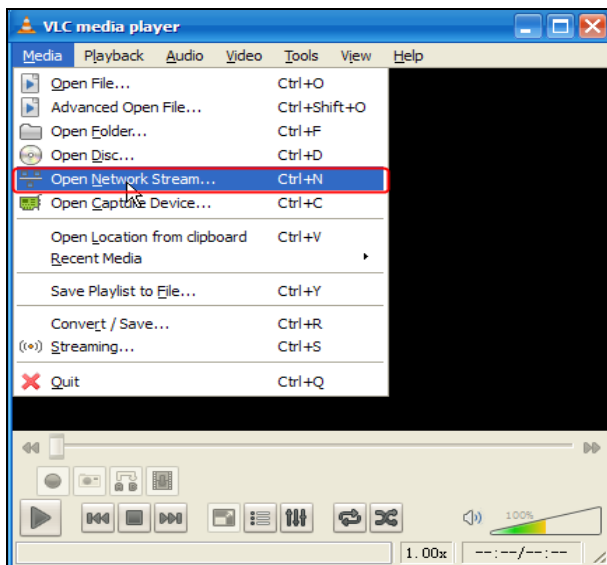


Figure 6.37

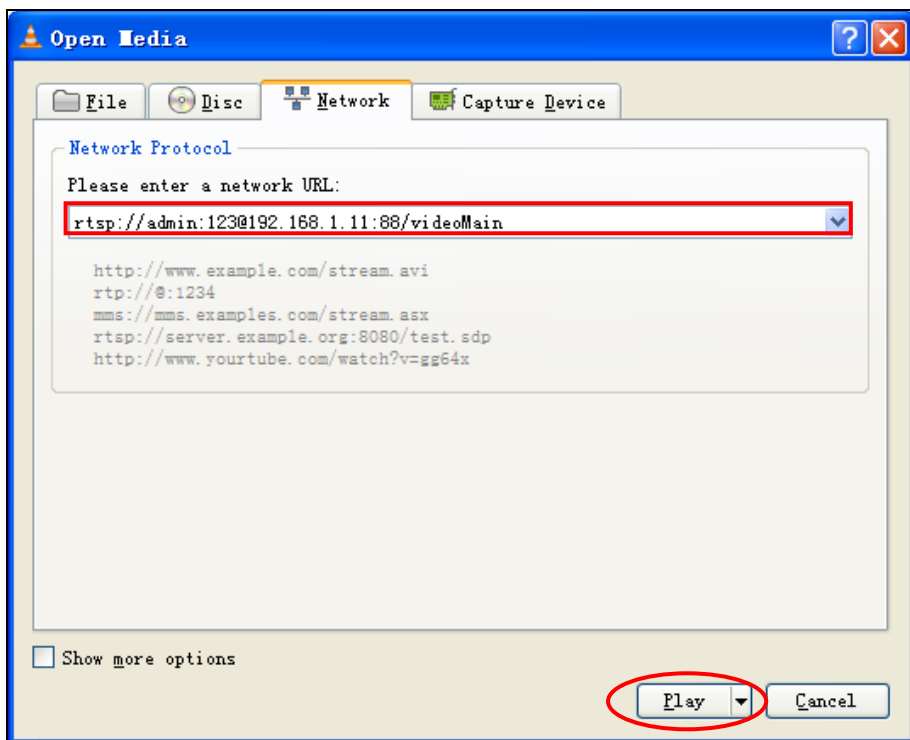


Figure 6.38

Sometimes you may need to enter the user name and password again. Click OK and you can see the real-time preview.



Figure 6.39

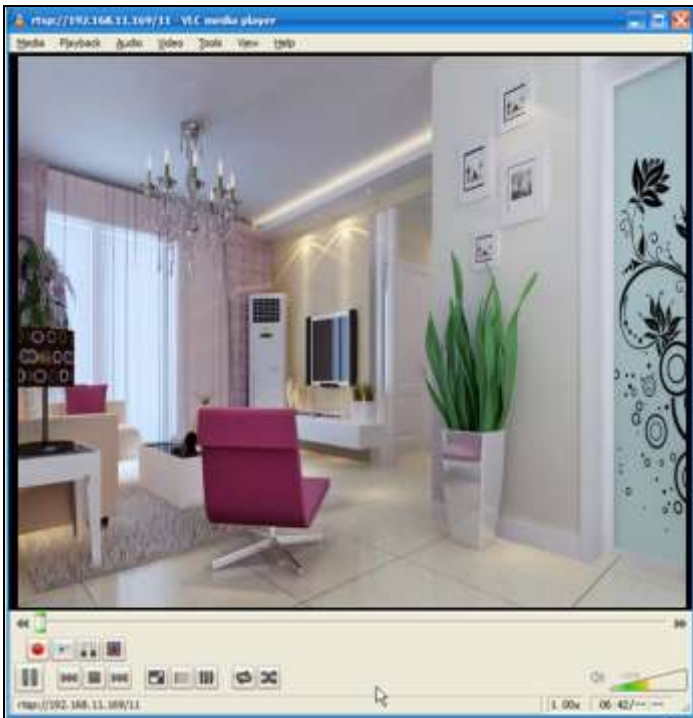


Figure 6.40

If you cannot play the video in the VLC player, please check the port mapping. You can read Quick Installation Guide about How to configure port forwarding.

NOTE: If you modify the camera’s username or password, you had better reboot the camera, or else the new username and password cannot take effect when you enter the authentication in the VLC.

6.3.7 Mail Settings

If you want the camera to send emails when motion has been detected, here Mail will need to be configured.

Save Refresh	
Enable <input checked="" type="checkbox"/>	
SMTP Server	smtp.gmail.com
SMTP Port	25
Transport Layer Security	STARTTLS <small>G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25.</small>
Need Authentication	Yes
SMTP Username	cuiyao93@gmail.com
SMTP Password Test
Sender E-mail	cuiyao93@gmail.com
First Receiver	yaoyao@163.com
Second Receiver	
Third Receiver	
Fourth Receiver	

Figure 6.41

1) SMTP Server/ Port /Transport Layer Security: Enter SMTP server for sender. SMTP port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465, and Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.

2) SMTP Username/ password: ID account and password of the sender email address

3) Sender E-mail: Mailbox for sender must support SMTP

4) Receiver: Mailbox for receiver need not support SMTP, you can set 4 receivers

5) Save: Click Save to take effect

6) Test: Click Test to see if Mail has been successfully configured.

Click Test to see if Mail has been successfully configured.

Save Refresh

Enable ☒

SMTP Server	<input type="text" value="smtp.gmail.com"/>		
SMTP Port	<input type="text" value="25"/>		
Transport Layer Security	<input type="text" value="STARTTLS"/> <small>G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25.</small>		
Need Authentication	<input type="text" value="No"/>		
SMTP Username	<input type="text" value="yaoyao@gmail.com"/>		
SMTP Password	<input type="password" value="....."/>	Test	Success
Sender E-mail	<input type="text" value="yaoyao@gmail.com"/>		
First Receiver	<input type="text" value="yaoyao@163.com"/>		
Second Receiver	<input type="text"/>		
Third Receiver	<input type="text"/>		
Fourth Receiver	<input type="text"/>		

Test result

Figure 6.42

If the test success, you can see the Success behind the Test, at the same time the receivers will receive a test mail.

If the test fails with one of the following errors after clicking Test, verify that the information you entered is correct and again select Test.

- 1) Cannot connect to the server
- 2) Network Error. Please try later
- 3) Server Error
- 4) Incorrect user or password
- 5) The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again
- 6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server
- 7) The message is denied by the server. Maybe because of the anti-spam privacy of the server
- 8) The server does not support the authentication mode used by the device

6.3.8 FTP Settings

If you want to upload record images to your FTP server, you can set FTP Settings.

Save Refresh	
FTP server	ftp://192.168.8.150 example:ftp://192.168.1.103
Port	21
FTP Mode	PORT
User name	yaocuixiang
Password	*****
Test	Success

Figure 6.43

Save Refresh	
FTP server	ftp://ftp.mgenseal.com example:ftp://192.168.1.103
Port	21
FTP Mode	PORT
User name	deotestge
Password	*****
Test	Success

Figure 6.44

FTP server: If your FTP server is located on the LAN, you can set as Figure 4.48.
If you have an FTP server which you can access on the internet, you can set as Figure 6.49.

Port: Default is port 21. If changed, external FTP client program must change the server connection port accordingly.

FTP Mode: Here supports two modes: PORT and PASV.

Username/password: The FTP account and password.

Click Save to take effect.

Click Test to see if FTP has been successfully configured.

6.3.9 P2P

Access the IP Camera by Smart Phone (Android or iOS operating system). First of all, you need to open the P2P function of the IP Camera at "Settings → Network → P2P".

P2P Save Refresh	
UID	F3GTBJ6PTNUL8MPMYRE1
Enable P2P	<input checked="" type="checkbox"/>
P2P Port	59656

Figure 6.45

Search and install the application named “ebode” on Google Play for Android devices, or on APP Store for iOS devices. If you want to know more details of the iOS APP or Android APP, see the *iOS App User Manual* or *Android APP User Manual*.

6.4 Video

This section allows you to configure Video stream settings, On screen display and Snapshot settings.

6.4.1 Video Settings

There are two ways to set the stream video settings. They are main stream video settings and sub stream video settings.

Video Settings

Save

Refresh

Main stream video settings

Stream Type	0
Resolution	720P
Bit Rate	2M
Frame Rate	30
Key Frame Interval	30

Sub stream video settings

Stream Type	0
Resolution	VGA(640*480)
Bit Rate	512K
Frame Rate	15
Key Frame Interval	45

Figure 6.46

Stream type: There are four types to identify different streams you have set.

Resolution: The camera supports multiple types, For example: 960P, 720P, VGA, QVGA. The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth. (Different models support different specific types.)

Bit rate: Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video cannot play well.

Frame rate: Note that a larger frame size takes up more bandwidth. When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

Key Frame Interval: The time between last key frame and next key frame. The shorter the duration, the more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

6.4.2 On Screen Display

This page is used to add timestamp and device name on the video.

OSD

Save

Refresh

Display Timestamp	Yes
Display Camera Name	Yes

Figure 6.47

Display Timestamp: There are two options: Yes or NO. Select Yes and you can see the system date on the video,
Display Camera Name: There are two options: Yes or NO. Select Yes and you can see the device name on the video,

6.4.3 Privacy Zone

This page is used to add privacy zone on the video.

Privacy Zone

Save

Refresh

Allow Privacy Zone	Yes
--------------------	-----

Set Privacy Zone

Figure 6.48

There are two options: Yes or NO. Select Yes, then click “Set Privacy Zone” and draw a privacy area on the video, the privacy area will be black on the video.



Figure 6.49

Click **OK** button and return to the **Privacy Zone** page, click Save to take effect. Back to the surveillance window, you can see the privacy area as the following picture:



Figure 6.50

6.4.4 Snapshot Settings

On this page you can set the snapshot pictures’ image quality and the storage path.

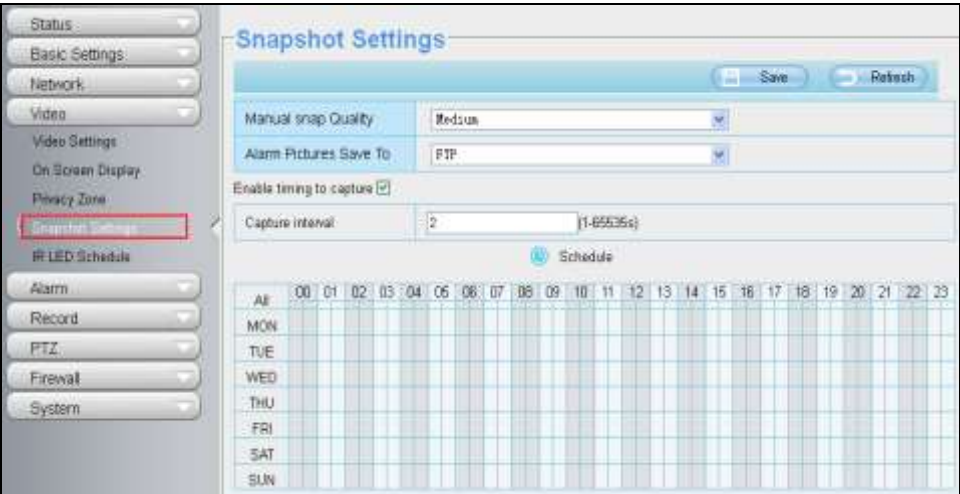


Figure 6.51

Image Quality: Low, Middle and High. The higher the quality, the picture will be clearer.

Alarm Pictures Save Path: FTP. If you have done FTP and Alarm settings, when alarming, the camera will snap pictures to the FTP automatically.

Enable timing to capture

To enable capture interval, follow the steps below:

1 Select Enable timing to capture

2 Capture interval: The interval time between two captures.

3 Select the capture time

- Capture any time

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at any time, the camera will capture.

- Specify an capture schedule

Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, the camera will capture.

- Press the left mouse and drag it on the time boxes, you can select the serial area,

4 Click Save button to take effect.

6.4.5 IR LED Schedule

On this page you can set the schedule time for switching IR LED lights. When parameter Mode is set to the Schedule on the Live Video window, at these schedule time, the IR LED lights will be turned off.



Figure 6.52

6.4.6 Lens Distortion Correction

Here you can set the distortion correction. There are three options: Low, Medium, High.

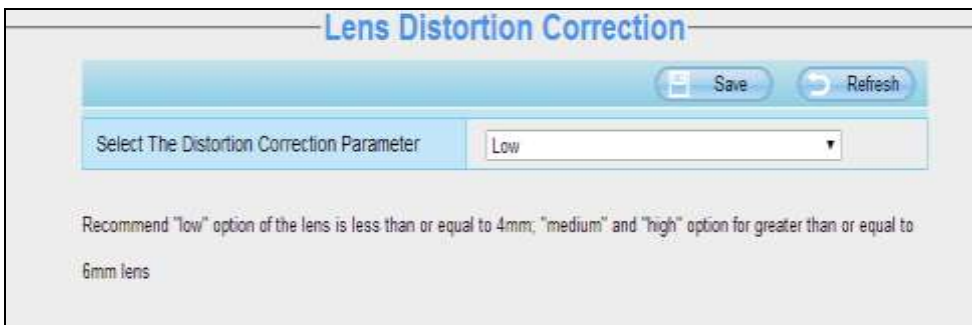


Figure 6.53

If you replace the lens, the image has found distortion, uneven and so on, you can modify the Select The Distortion Correction Parameter to calibration images.

6.5 Alarm

6.5.1 Motion Detection

IP Camera supports Motion Detection Alarm, when the motion has been detected, it will send emails or upload images to FTP.

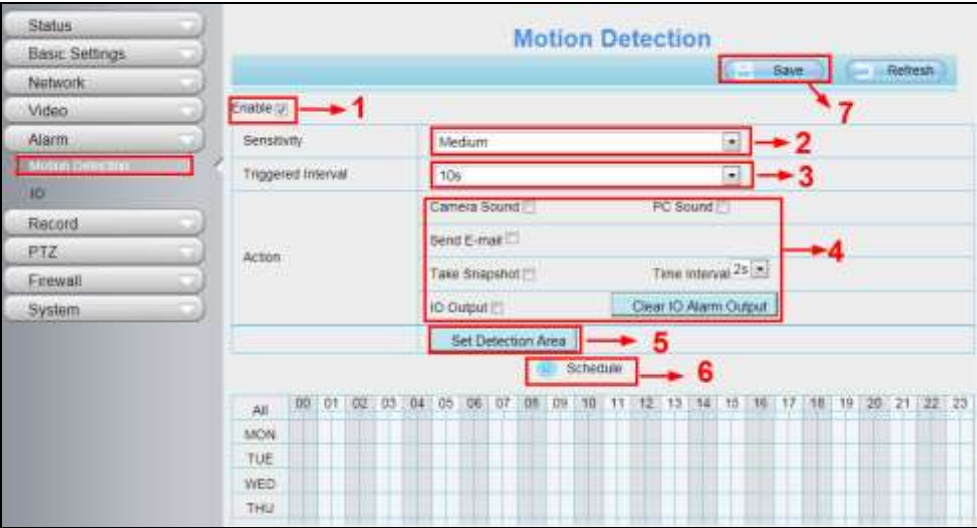


Figure 6.54

To enable motion detection, follow the steps below:

- 1) Enable Motion detection
- 2) Sensitivity: It supports three modes: Low, Middle and High. The higher the sensitivity, the camera will be more easily alarmed. Select one motion sensitivity.
- 3) Trigger interval: The interval time between two motion detections. Here supports 5s/6s/7s/8s/9s/10s/11s/12s/13s/14s/15s. Select one interval time.
- 4) Select the alarm indicators

When the motion has been detected, the alarm status will turn to Detect alarm.

Refresh	
Alarm Status	Detect alarm
NTP Status	Disable
DDNS Status	Disable
UPnP Status	Success
WiFi Status	Connected to:foscam-wifi
IR LED Status	Off

Figure 6.55

There are three alarm indicators:

A Camera Sound and PC Sound

If the camera has connected with a speaker or other audio output device, if you select Camera Sound or PC Sound, when the motion has been detected, the people around the camera will hear beep alarm sound.

B Send E-mail

If you want to receive alarm emails when motion is detected, you must select Send E-mail and set Mail Settings first. The alarm email cannot contain the alarm picture if you have not selected Take Snapshot.

C Take Snapshot

If you select this checkbox, when the motion has been detected, the camera will snap the live view window as a still picture and load it to the FTP. Make sure you have set FTP and set FTP as the storage path in Video->Snapshot settings panel.

If you select Send Email, at the same time the picture will be send to you as an attachment. Time interval: The interval time between two pictures.

D IO Output

If IO alarm is triggered and IO alarm output device will always alarm (sound alarm is issued a warning sound, alarm lights in flash etc.). Click "Clear IO alarm output" , the alarm output device will stop alarming. If IO alarm is triggered again after alarm interval, IO alarm output device will be restart.

5) Set Detection Area

Click set Detection Area and it pop up a window, then you can draw the detection area. Click OK button after settings. When something moving in the detection area, the camera will alarm.

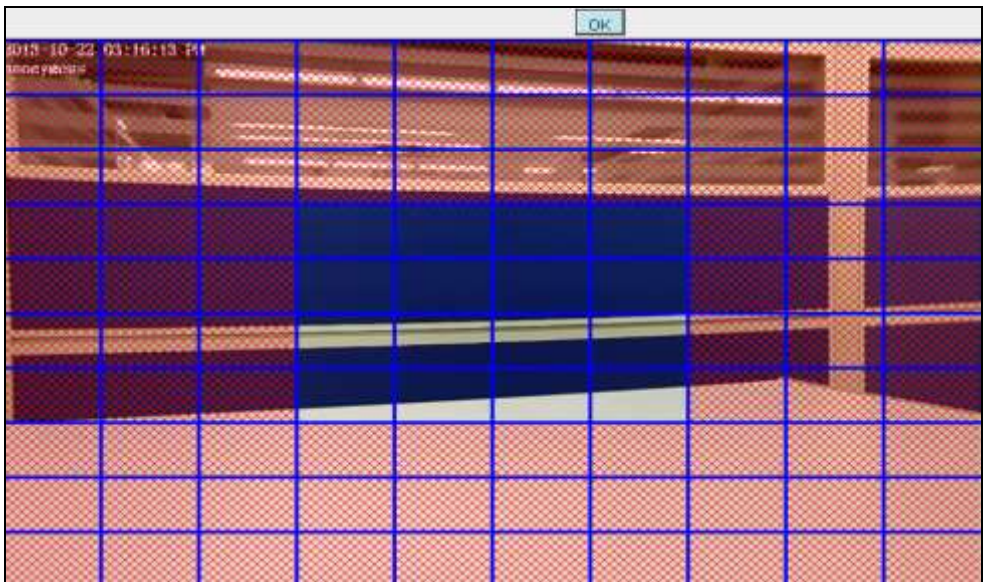


Figure 6.56

6) Alarm Schedule

① Alarm anytime when motion is detected

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at any time, the camera will alarm.

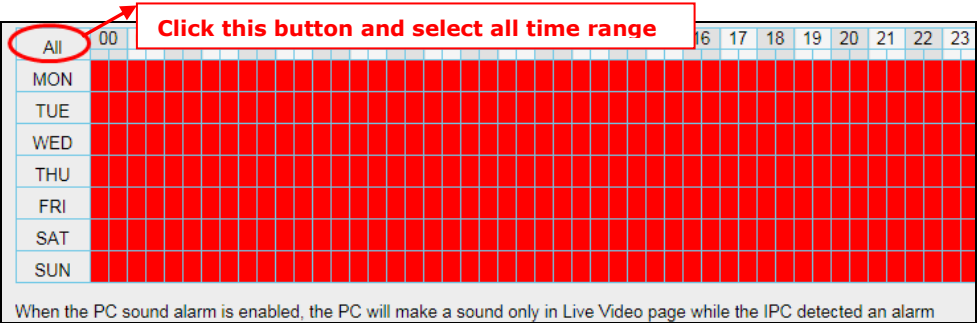


Figure 6.57

② Specify an alarm schedule

Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, when something moving in the detection area, the camera will alarm.

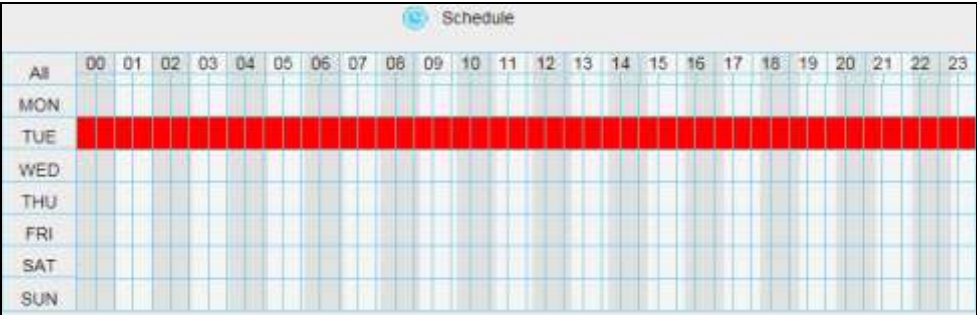


Figure 6.58

③ Press the left mouse and drag it on the time boxes, you can select the serial area,

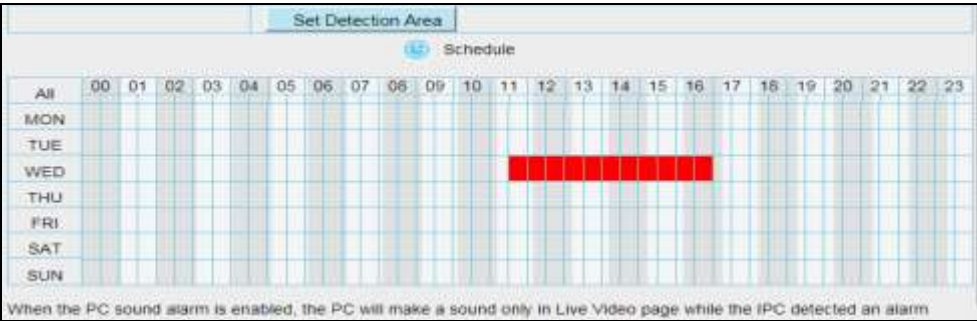


Figure 6.59

7) Click Save button to take effect. When the motion is detected during the detection time in the detection area, the camera will alarm and adopt the corresponding alarm indicators.



NOTE: You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.


6.6 Record

6.6.1 Storage Location

On this page you can change the manually recording storage path, the default storage path is D:\ipc.

Storage Location

 Save  Refresh



Recording Location	FTP	
Local Recording Location	D:\ipc	

Recording Location is used for alarm recordings and schedule recordings.

The local recording must be stored in local storage. The default Windows storage location is "c:\IPCamRecord". The default Mac OS storage location is "/IPCamRecord". If you modify the path on other Foscam cameras, this default storage location will be modified accordingly.

Figure 6.60

6.6.2 Alarm Recording

 Save 

Enable Pre-Record ☒



Pre-recorded Time	5s
Alarm Record Time	30s

Figure 6.61

6.6.3 Local Alarm Recording

On this page you can enable local alarm record, and select the local alarm record time.

Local Alarm Recording

 Save 

Enable Local Alarm Recording ☒

Local Alarm Recording Time	30s
----------------------------	-----

Figure 6.62

6.6.4 Scheduled Recording

On this page you can enable schedule record.

Scheduled Recording To FTP

Save

Refresh

Enable Scheduled Recording☒

Stream

Main stream

⌚

Edit Scheduled Recording

All	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
SUN																								

Scheduled recording only supports FTP server.

Figure 6.63

You can select the main stream or sub stream from the drop-down. You can set the store path of the recording file on the Storage Location page.

Stream: You can select the main stream or sub stream from the drop-down. You can set the store path of the recording file on the Storage Location page.

Click Save button to take effect.

6.7 PTZ (Not available for this camera)

This page will allow you to change the pan/tilt speed and do RS485 settings. (Not available for this camera).

6.7.1 Pan/Tilt Speed

There are five Pt speed types: very fast, fast, normal, slow and very slowly. Select the desired pan/tilt speed type and click save button .

Pan & Tilt Speed

Save

Refresh

Pan & Tilt Speed

Normal

Figure 6.64

6.7.2 RS485 Configuration

This camera supports the standard 485 cradle head protocol (PELCO-D and PELCO-P). Please configure the RS485 protocol corresponding information first, or else the cradle head may cannot work.

RS485

Save

Refresh

Protocol	PELCO-D
Address Code	1
Baud Rate	9600
Data Bits	8
Stop Bits	1
Check	None

Figure 6.65

6.8 Firewall

This section explains how to control the access permission by checking the client PC’s IP addresses. It is composed of the following columns: Block access from these IP addresses and Only allow access from these IP addresses.

IP Filtering

Save

Refresh

Enable Firewall☒

IP Filtering

Block access from these IP addresses
Block access from these IP addresses
Only allow access from these IP addresses

IP Address #1	
IP Address #2	
IP Address #3	
IP Address #4	
IP Address #5	
IP Address #6	
IP Address #7	
IP Address #8	

Figure 6.66

Enable firewall, If you select Only allow access from these IP addresses and fill in 8 IP addresses at most, only those clients whose IP addresses listed in the Only allow access from these IP addresses can access the Network Camera. If you select Block access from these IP addresses, only those clients whose IP addresses are in the IP list cannot access the Network Camera.

Click Save to take effect.

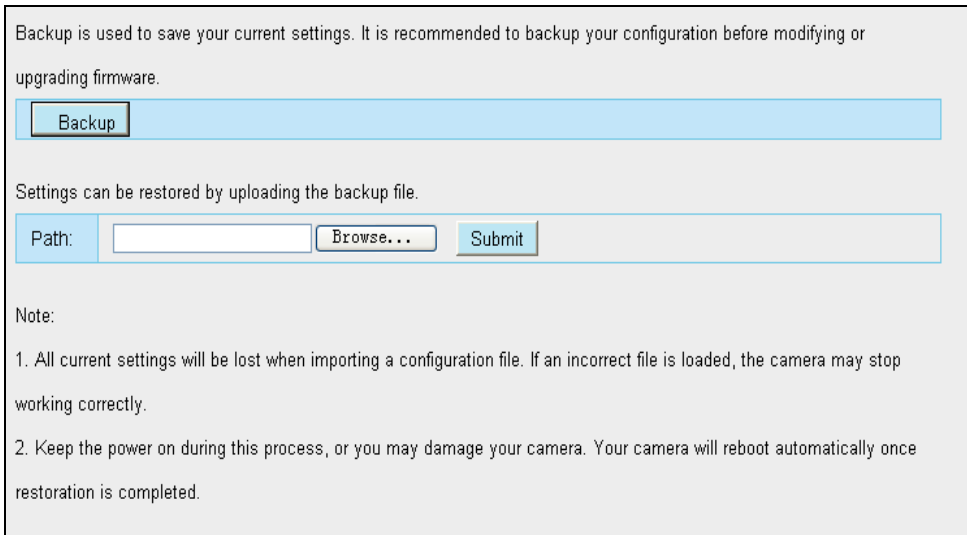
6.9 System

In this panel, you can back-up / restore your camera settings, upgrade the firmware to the latest version, restore the camera to default settings and reboot the device.

6.9.1 Back-up & Restore

Click Backup to save all the parameters you have set. These parameters will be stored in a bin file for future use.

Click Browse and select the parameters file you have stored, then click Submit to restore the restore the parameters.



Backup is used to save your current settings. It is recommended to backup your configuration before modifying or upgrading firmware.

Settings can be restored by uploading the backup file.

Path:

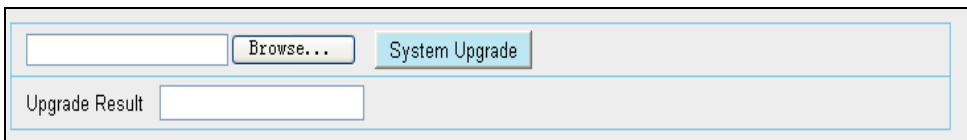
Note:

1. All current settings will be lost when importing a configuration file. If an incorrect file is loaded, the camera may stop working correctly.
2. Keep the power on during this process, or you may damage your camera. Your camera will reboot automatically once restoration is completed.

Figure 6.67

6.9.2 System Upgrade

Click Browse, choose the correct bin file(System firmware or Web UI) and then click System upgrade. Don't shut down the power during upgrade. After upgrading, you can see the upgrade result.




Upgrade Result

Figure 6.68

If you want to verify the firmware version of you camera, please go to Device Status-> Device Information Page to check.

Upgrade Firmware by IP Camera Tool

Double click the IP Camera Tool shot icon , select the Camera IP that you want to upgrade the firmware. Then select Upgrade Firmware and enter the username and password, choose the firmware file, and upgrade.

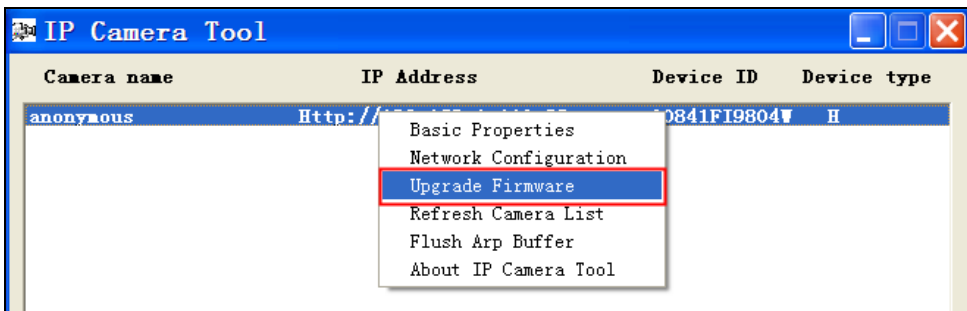


Figure 6.69

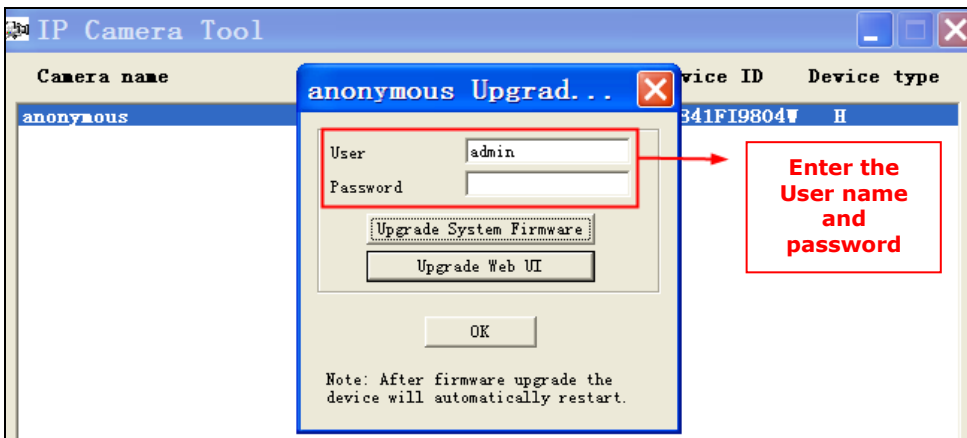


Figure 6.70

CAUTION: If your camera works well with the current firmware, we recommend not upgrading. Please don't upgrade the firmware unnecessarily. Your camera may be damaged if misconfigured during an upgrade.

NOTE:

- 1) Don't upgrade the firmware through the web UI in WAN, or else the upgrade may fail.
- 2) Please ensure you have download the correct firmware package for your camera before upgrading. Read the upgrade documentation (readme.txt file) in the upgrade package before you upgrade.
- 3) Upon downloading the firmware check the sizes of the .bin files. They must match the size in the readme.txt file. If not, please download the firmware again until the sizes are the same. Your camera will not function correctly if a corrupt .bin file is used.
- 4) Normally, only Device WEB UI need to be upgrade, please do not try to upgrade the Device Firmware.
- 5) Never shut down the power of the camera during upgrade until the IP camera restart and get connected.
- 6) After upgrade successfully, please clear the cache of browser, uninstall the old plugin and re-install it, then reset the camera to the default factory settings before using the camera.

6.9.3 Factory Reset

Click Factory Reset button and all parameters will return to factory settings if selected. The default administrator username is admin with a blank password.

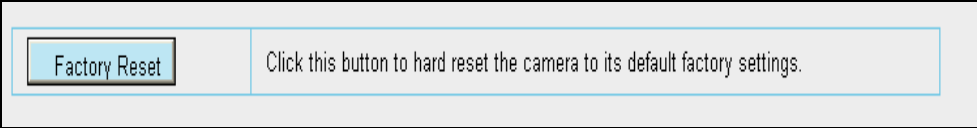


Figure 6.71

6.9.4 Reboot

Click Reboot to reboot the camera. This is similar to unplugging the power to the camera.

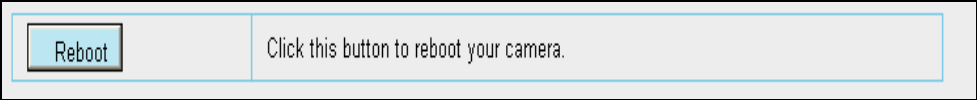


Figure 6.72

7. Appendix

7.1 Frequently Asked Questions

NOTE: Any questions you would meet, please check Network connections firstly. Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

7.1.1 How to install the plug-in for Safari

Download the plug-in when you login your camera at the first time.

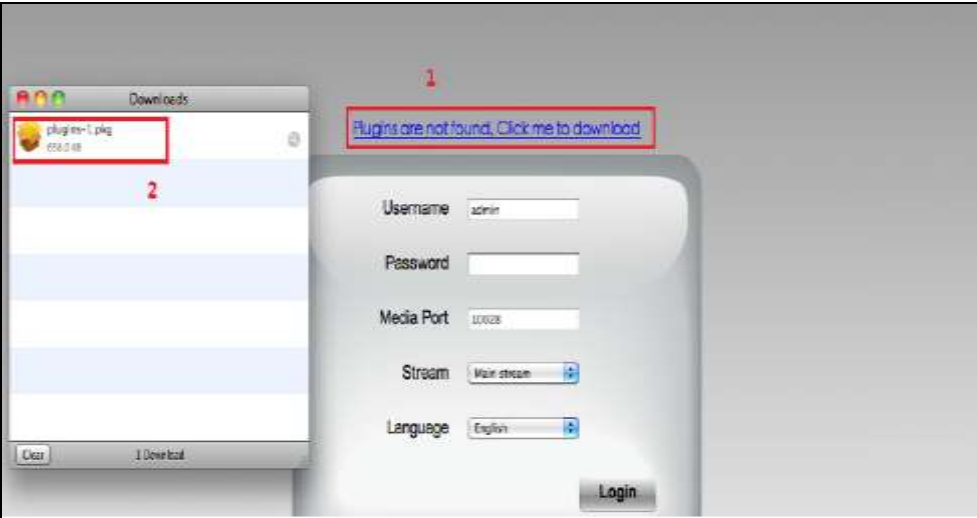


Figure 7.1

Double click the plug-in to install it.

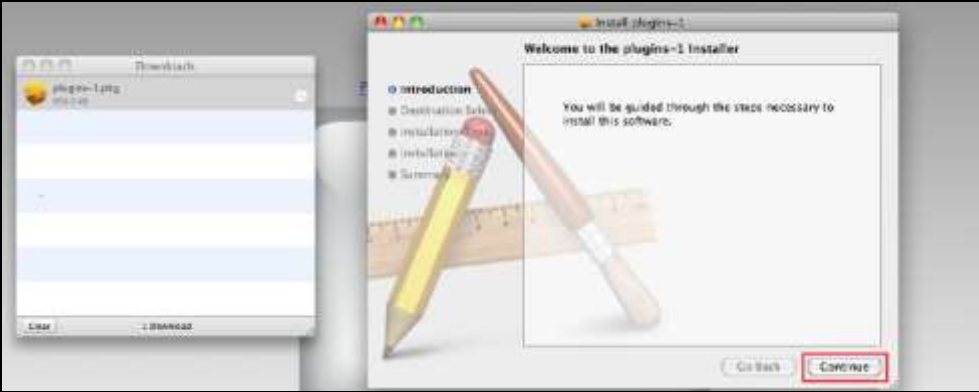


Figure 7.2

Continue to finish the installation, and then it will be successful.



Figure 7.3

Please check if the plug-in was successfully installed or not.

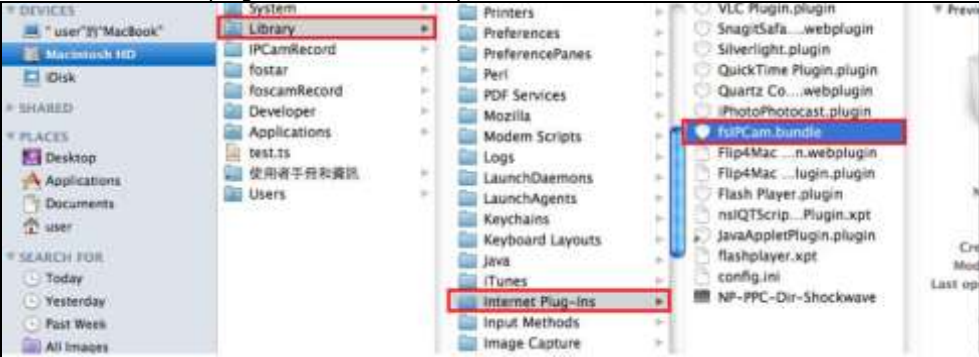


Figure 7.4

Restart Safari to enable the plug-in.

7.1.2 How to download and install the ActiveX for Firefox users

For the first time login the camera, it may prompt you to download plugin .



Figure 7.5

Drag the download file to Firefox web page and it will prompt you to Install it.

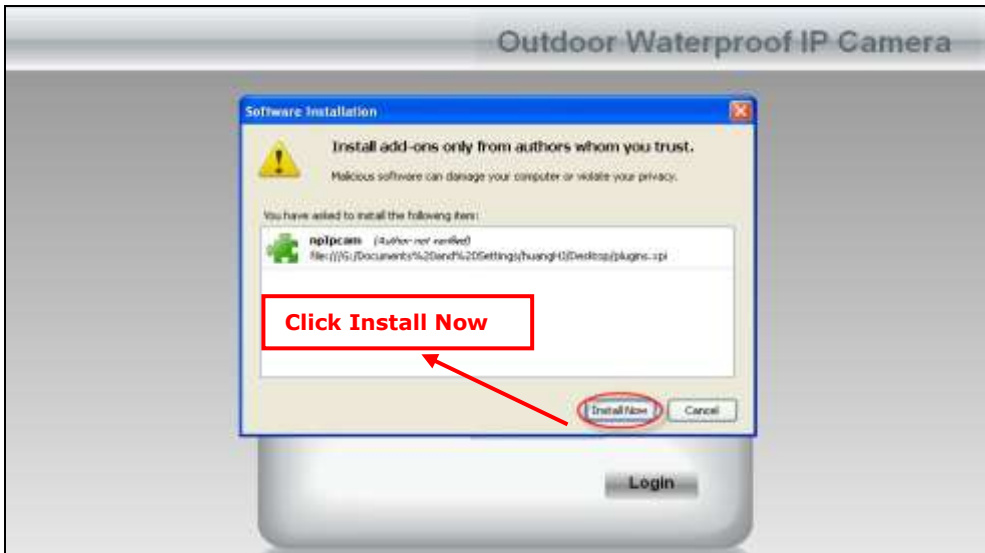



Figure 7.6

Reboot the Firefox after the plugin installation is successfully completely, then re-login the camera again, you can see the surveillance window.

NOTE: If you could not view living video after running the ActiveX, only a red cross  in the center of the video or just a black screen. Please change another port number to try. Make sure all firewall or antivirus software on your computer does not block the active download and installation. If you are unable to run the ActiveX control, try shutting down the firewall or antivirus program.

7.1.3 How to download and install the ActiveX for Google Chrome users

For the first time login the camera, it will prompt you to download the ActiveX.



Figure 7.7

Download the plugin and drag it to the Extensions page of Google Chrome.

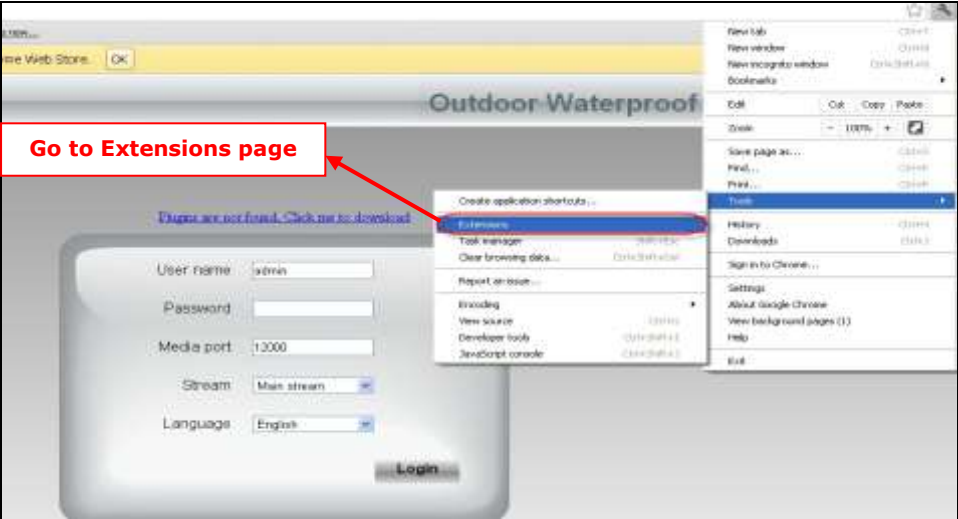


Figure 7.8

Click Add button to install the Plugins.



Figure 7.9

Reboot the browser and re-login the camera, you will see the surveillance window.

7.1.4 I have forgotten the administrator password

To reset the administrator password, you had better unplug the network cable firstly. After that, press and hold down the RESET BUTTON about 5 seconds. Releasing the reset button, the password will turn to the factory default. Default administrator username/password: admin with blank password

7.1.5 Camera can not record

Camera can not record when I click Record button or I can't change the manually record path. When you use Windows7 or Vista, you may be not able to do manually record or change the record path because of the security settings of computer.

There are two ways to resolve this problem:

Please add the camera as a trusted site to resolve this issue. The steps are: open IE browser → Tool → Internet Properties → Security → Trusted sites → Sites → Add. Or: open IE browser, then right click, select "Run as administrator".

7.1.6 Subnet doesn't match

Check whether your ip camera in the same subnet of your computer. The step is Control Panel -- Network Connections -- Dbclick Local Area Connections -- Choose General -- Properties.(Figure 6.23/6.24) Check subnet mask, IP address and gateways. When you set IP address please make sure they are in the same subnet. Otherwise you can't access camera.

7.1.7 No Pictures Problems

The video streaming is transmitted by the ActiveX controller. If ActiveX controller isn't installed correctly you will see no video image. You can resolve this problem by this way: Download ActiveX controller and set the safety property of IE in the PC when you view it first time: IE browser--Tool--Internet Proper--Security--Custom Level--ActiveX control and Plug-ins. Three options of front should be set to be "Enable", The ActiveX programs read by the computer will be stored. As follows:

- Enable: Download unsigned ActiveX controls
- Enable: Initialize and script ActiveX controls not marked as safe
- Enable: Run ActiveX controls and plug-ins

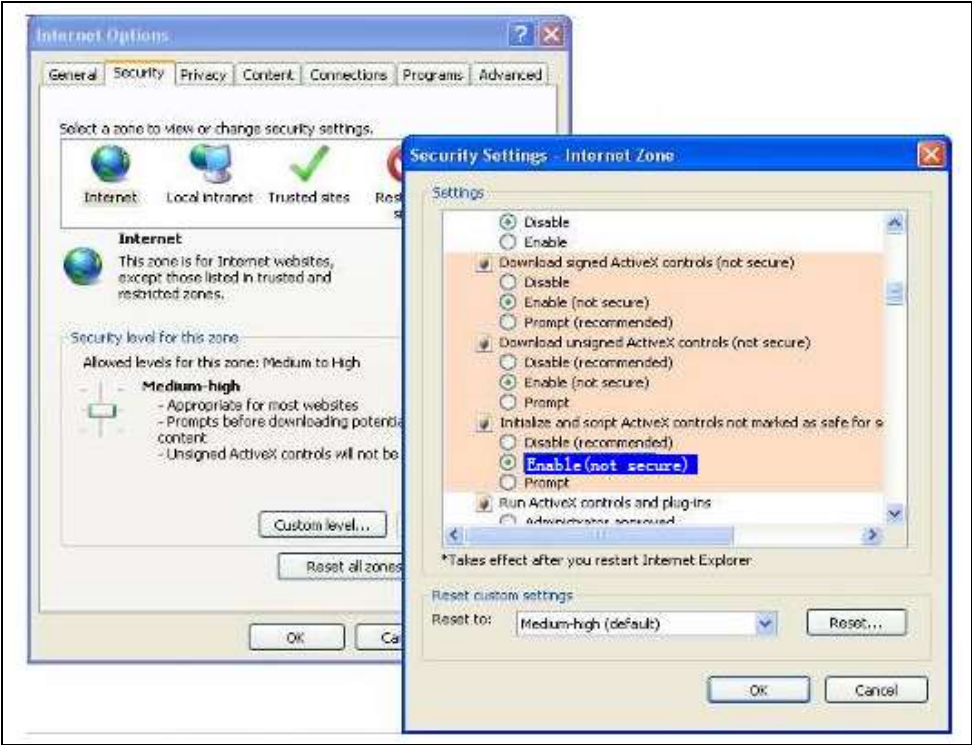


Figure 7.10

If you allow the ActiveX running, but still could not see living video. Please change another port number to try. Don't use port 8000.

Port

Save

Refresh

HTTP Port	88
HTTPS Port	443
ONVIF Port	888

Figure 7.11

Make sure that your firewall or anti-virus software does not block the camera or ActiveX. If you could not see video, please shut down firewall or anti-virus software to try again.

7.1.8 Can't access IP camera in internet

There are some reasons:

1. ActiveX controller is not installed correctly
2. The port which camera used is blocked by Firewall or Anti-virus software. Please change another port number and try again. (Figure 8.7)
3. Port forwarding is not successful (Figure 6.30)

Check these settings and make sure they are correct.

7.1.9 UPnP always failed

UPnP only contains port forwarding in our recent software. Sometimes, it may be failed to do port forwarding automatically because of firewall or anti-virus software. It also has much relation with router's security settings. So we recommend you do port forwarding manually. You can view your camera in internet successfully after you do port forwarding manually in your router.

7.1.10 Camera cannot connect wireless

If your camera could not connect wireless after you set wireless settings and plug out the cable. Please check whether your settings are correct or not. Normally, camera can't connect wireless mainly because of wrong settings. Make sure broadcast your SSID; use the same encryption for router and camera.

7.1.11 Remove the plug-in

Remove the plug-in from IE.

If you need to remove the plug-in from IE, please open an IE page. Go to Tools → Manage Add-ons → Show All add-ons → then find the ocxIPcam Control, double click to remove it. Camera will prompt you to install the latest one when next logging. (Do not login your camera during the deleting, or the plug-in won't removed caused it is running).

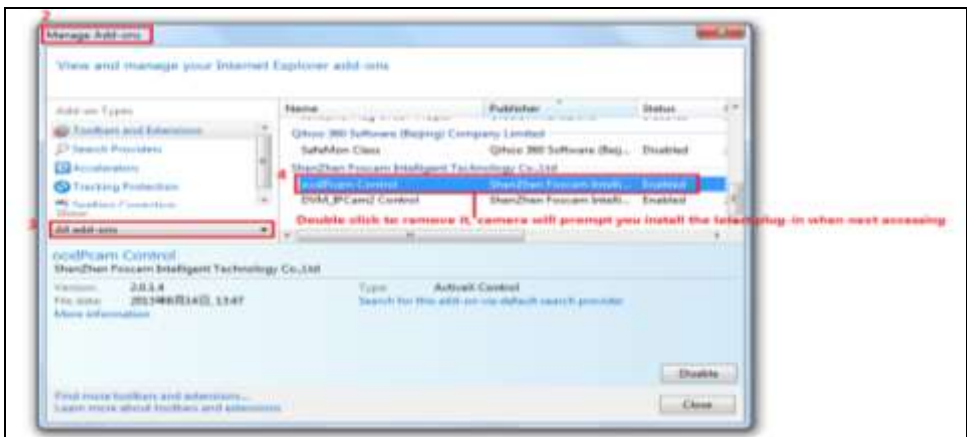


Figure 7.12

Remove the plug-in on Safari

If you need to remove the plug-in from Safari, please open a Finder window. From the Finder menu bar click Go → Go to Folder. Copy then paste the following: Library/Internet Plug-Ins. Click Go then move to the Internet Plug-Ins. Find the fsIPCam.bundle file, and delete it. Camera will prompt you to install the latest one when next logging.

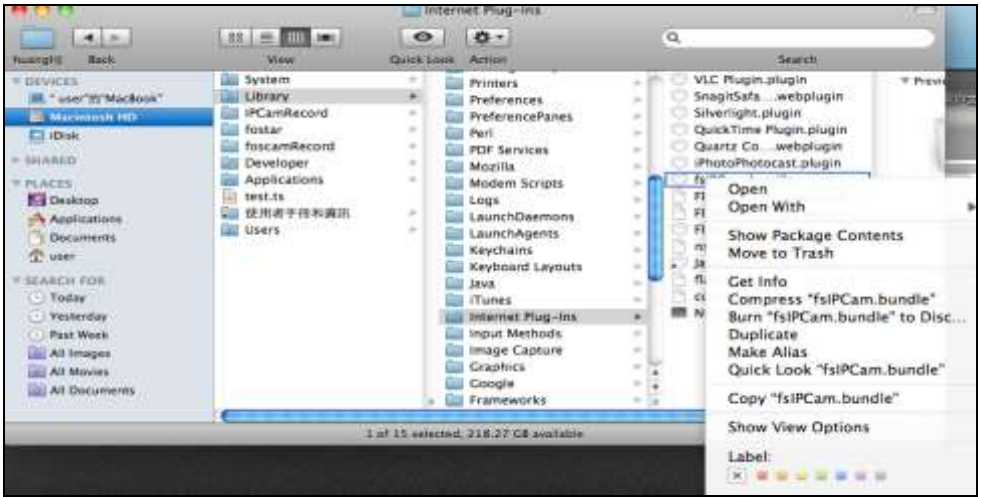


Figure 7.13

Remove the plug-in from Chrome

If you need to remove the plug-in from Google Chrome, please open a new tab. Click Customize and Control Google Chrome, then go to Tools → Extensions. Find the IPCAM extension, and click the junk icon to remove it. Camera will prompt you to install the latest one when next logging.

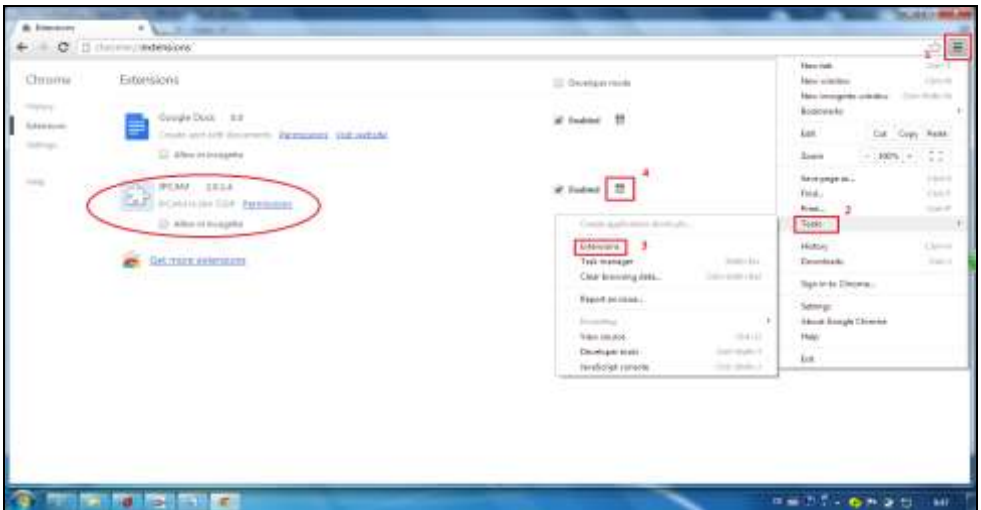


Figure 7.14

Remove the plug-in from Firefox

If you need to remove the plug-in from Firefox, please open a new tab. Click the Firefox icon on the top right, then go to Add-ons. Find the npipcam 2.0.1.x, and click the Remove button to delete it. Please follow a restart to take the change effect. Camera will prompt you to install the latest one when next logging.



Figure 7.15

7.2 Default Parameters

Default network Parameters

IP address: obtain dynamically

Subnet mask: obtain dynamically

Gateway: obtain dynamically

DDNS: Embedded IPCAM DDNS Service

Username and password

Default admin username: admin with a blank password

7.3 Specification

Item		
Image Sensor	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1.0 Megapixels
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	Glass Lens
	focal length	f:2.8mm
	Aperture	F1.2
	Angle of View	70°
Video	Image Compression	H.264
	Image Frame Rate	30fps(60Hz), 25fps(50Hz), downward adjustable
	Resolution	720P (1280 x 720), VGA (640 x 480), QVGA (320 x 240)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Night visibility	12pcs IR-LEDs, night vision range up to 20 metres

Audio	Input/Output	External standard 3.5mm interface for two-way audio
	Audio Compression	PCM/G.726
Network	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.); IEEE802.11g: 54Mbps(Max.); IEEE802.11n: 150Mbps(Max.).
	Wireless Security	WEP, WPA, WPA2
	Network Protocol	IP, TCP, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, DDNS, UPnP, RTSP, ONVIF
System Requirements	Operating System	Microsoft Windows 2000/XP, Vista, 7; Mac OS, iOS; Android
	Browser	Microsoft IE6 + above version or compatible browser; Mozilla Firefox; Google Chrome; Apple Safari.
Other Features	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Block	Set privacy area manually
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Reset	Reset button is available
Power	Power Supply	DC 12V/1.0A
	Power Consumption	5.5 Watts (Max.)
Physical	Dimension(mm)	132(L)x 72(W)x 80(H)
	Gross Weight	1186.8g
	Net Weight	870g
Environment	Operating Temperature	-20°C~ 55°C (-4°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

Power adapter should be used between -20°C-40°C, and 20%-90% relative humidity.

7.4 CE & FCC

Electromagnetic Compatibility (EMC)

FCC Statement



This device complies with FCC Rules Part 15. Operation is subject to the following two conditions.

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is like to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

FCC Caution

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

CE Mark Warning



This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Questions? Please visit our website www.ebodeelectronics.eu for FAQ and our contact details.

DECLARATION OF CONFORMITY

Hereby, ebode electronics, declares that this ebode IPV58P2P is in compliance with the essential requirements and other relevant provisions of the following Directives:

Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility

Directive 2006/95/EC of the European Parliament and of the Council of 12 December 2006 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits

Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Directive 2005/32/EC of the European Parliament and of the Council of 6 July 2005 establishing a framework for the setting of eco design requirements for energy-using

Technical data and copies of the original Declaration of Conformity are available and can be obtained from ebode electronics: PB 25, NL-4264ZG, the Netherlands.



User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

This document contains important information for users with regards to the proper disposal and recycling of ebode products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:



Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams.

It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health.

For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

DECLARATION OF CONFORMITY TO R&TTE DIRECTIVE 1999/5/EC for the European Community, Switzerland, Norway, Iceland and Liechtenstein

Product category: general consumer (category 3).

English: This equipment is in compliance with the essential requirements and other relevant provisions of the European R&TTE Directive 1999/5/EC

Deutsch [German]: Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.

Nederlands [Dutch]: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.

Svenska [Swedish]: Denna utrustning står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Français [French]: Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC

Español [Spanish]: Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.

Português [Portuguese]: Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.

Italiano [Italian]: Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.

Norsk [Norwegian]: Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.

Suomi [Finnish]: Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.

Dansk [Danish]: Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.

Polski [Polish]: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC

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Bluetooth Speaker BTS30

Use the BT Sound to share the music on your smartphone, tablet or laptop wirelessly with your friends. As the BT Sound is small in size you can enjoy your favourite songs any place, anytime, anywhere! Ideal for parties, festivals or while travelling.

Bluetooth Receiver BTR30

Transmit the music from you smartphone, tablet or laptop wireless to your BT Sound Receiver. You easily hook this up to your amplifier, stereo set or your car audio system. Enjoy your favourite songs with all your friends at home, and on the go!



ebode is focusing on wireless audio and video products, that are affordable, innovative and plug & play. The products provide you with comfort in your home, help you to avoid wires, and make sure you can stream your personal audio and video to where ever you want to look or listen to it. For more ebode products and information, please visit www.ebodeelectronics.eu.

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